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## MALTA FEVER IN SOUTHWESTERN UNITED STATES.

### WITH SPECIAL REFERENCE TO A RECENT OUTBREAK IN PHOENIX, ARIZ.

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The first case of Malta fever known to have originated in the United States was reported in 1905 by Col. C. F. Craig,[1] Medical Corps, United States Army. The patient was a nurse who contracted the disease in Washington, D. C., probably from nursing infected soldiers. Craig also reported nine other cases occurring in soldiers returned from the Philippines. In this report he stated that he was convinced that Malta fever existed in the warmer portions of the United States. This statement can scarcely be classed as a prediction that it would be found to exist, but is rather a conservative opinion based on a careful study of the disease and the knowledge that conditions favorable to its existence and spread were present in the warmer portions of the United States.

Six years later, Ferenbaugh,[2] Medical Corps, United States Army, reported five cases of Malta fever in Texas, the first cases of the indigenous occurrence of this disease in the United States. All five had worked with goats and had drunk goat's milk. Following this report, Ferenbaugh and Gentry, Medical Corps, United States Army, were detailed by the Surgeon General of the Army to make some field investigations of the disease in Texas. Their investigations, reported in 1911,[3] show that Malta fever had in all probability been present in Texas at that time for at least 25 years. They made serological tests on 128 goats and found 19.4 per cent positive for Malta fever; but, because of the unfavorable time of year for such work, were unable to isolate *B. melitensis* from any of the goats. They made positive diagnoses, by serological tests, on seven human cases in addition to the five first reported by Ferenbaugh. In two of these cases they recovered *B. melitensis*. They point out that the favorable

[1] Craig, Charles F.: The Symptomatology and Diagnosis of Malta Fever, with the Report of Additional Cases. Internat. Clinics, 15th series, vol. 4: 89-115.

[2] Ferenbaugh, Thos. L.: Endemic Mediterranean Fever in Southwest Texas. Jour. Am. Med. Assn., *57:* 730.

[3] Gentry, Ernest R., and Ferenbaugh, Thos. L.: Endemic Malta Fever in Texas. Jour. Am. Med. Assn., *57:* 889. Ibid, *57:* 1045. Ibid, *57:* 1127.

time to study the disease is during the spring and early summer, during which time the goats are kidding and are in full milk, and not in the fall, at which time their investigations were made.

Yount and Looney,[4] in 1912, reported five cases of Malta fever, all occurring in persons connected with the goat industry, near Wagoner, Ariz. Yount,[5] in 1913, reported an additional case in which he isolated *B. melitensis*, and four other cases occurring in the practice of Dr. J. C. Wilson at Wilcox, Ariz., two of which were positive by agglutination tests made by Capt. C. L. Cole, Medical Corps, United States Army, at Fort Sam Houston, Tex.

During the summer of 1922 the first outbreak of Malta fever in any city in the United States occurred in Phoenix, Ariz. The outbreak resulted from the sale of goat's milk by a high-class dairy, whereas practically all of the indigenous cases previously reported in this country were directly connected with the goat-raising industry. More than 30 cases were positively diagnosed, and doubtlessly many others occurred. Two fatalities resulted in patients already more or less invalided by other infections. This series of cases constitutes the first, in one locality, of sufficient size to warrant being called an epidemic. It was the privilege of the writer to be detailed to Arizona to cooperate with the State and local authorities in the investigation of Malta fever in Phoenix in particular, and of its occurrence in the State in general. The important facts obtained in connection with the Phoenix outbreak are briefly as follows:

Cases of a peculiar febrile disease began to appear in Phoenix about the middle of May, 1922, in which a variety of provisional diagnoses, including typhoid fever, rheumatic fever, malaria, septicemia, and influenza, were made. After several weeks Malta fever was suspected, following which cultures of *B. melitensis* were secured from the Hygienic Laboratory, United States Public Health Service. Agglutination tests made at the Pathological Laboratory of Phoenix, on August 3, and confirmed later by the Hygienic Laboratory, established beyond doubt the presence of Malta fever in the city. The fact that the presence of Malta fever was not recognized earlier is an indication of the difficulties attending its early recognition.

By the end of September, 35 cases had been located, most of which had probably been infected before the end of June. In September a number of these cases were sufficiently typical clinically to warrant a diagnosis of Malta fever, even in the absence of a known source of infection, or of positive serological tests. Temperature records could be secured in only 12 of the cases, 9 of which showed the wave-like effect, from which the name "undulant fever" was first given

[4] Yount, C. E., and Looney, R. N.: Malta Fever in Arizona, with a Preliminary Report of Cases. South Calif. Pract. 27: 257.

[5] Yount, C. E.: Malta Fever in the United States. Military Surgeon, 33: 540.

the disease by Hughes, and the other 3 were not inconsistent. The length of time that the fever lasted varied from 60 days to more than 150 days; one or two of the cases are, at this writing, still febrile. The cases varied in severity from ambulatory to fatal. However, of the two patients who died, one was a chronic case of tuberculosis and the other had probably suffered from some type of focal infection. All the cases, with the exception of one patient who objected to having blood taken, were positive for Malta fever by the agglutination test. It is interesting to note, too, that their serums caused an agglutination of *B. abortus* (Bang) equally as well. *B. melitensis* was recovered from two of the cases.

The investigations showed that all but three of the patients had drunk goat's milk supplied from the same dairy, and that the possibility of these three having drunk of this milk also could not be excluded. This milk was placed on sale April 7, 1922. Our investigations showed that nearly all the patients were probably infected by June 1, although the sale of the goat's milk was not stopped until August 3, 1922. The explanation for this is that the milk sold came from two different herds of goats, which for convenience are designated as herd A and herd B. Up to about June 1 all of the goats' milk used came from herd A; soon after that time the milk from herd A was mixed more or less with milk from herd B and finally almost or entirely replaced by it. Agglutination tests made on serums from 115 of the goats from herd A gave 18.3 per cent positives. Gentry and Ferenbaugh (*loc. cit.*), in Texas, found 19.4 per cent of positives in 128 goats examined. Serums from 143 goats from herd B gave only two positives. It seems quite probable that herd B was free from infection when brought down from the hills early in the spring and became infected from herd A. We are particularly indebted to the Bureau of Animal Industry for collecting most of the goat serums. The herd A goats were on the range during the writer's stay in Phoenix, and it was impracticable to obtain their serums until they were rounded up for shearing. Dr. M. Shipley, veterinary inspector, stationed at Phoenix, kindly volunteered to secure the serums for us at that time.

From information obtained from Arizona State and local authorities and various physicians, we are certain that Malta fever has occurred in several widely separated areas of the State. We wish especially to mention a series of five cases, all in the same family, occurring near Phoenix in 1908, as they constitute the first that occurred in the State in which we could get a history. These cases were attended by Dr. H. K. Beauchamp, and from his account of them, and an almost classical description of his own illness and that of the others obtained first hand from one of the patients, we are convinced that these cases were Malta fever and that the disease has

been present in Arizona at least 14 years. Two of the other four cases had left the State, but are known to be in good health. One died in 1909, probably from the disease, and one was killed in the late war. It is of interest to note that two of them, after suffering with the disease for several months in Arizona, being told by their physician that they might have tuberculosis, and believing that they were in the last stages, "went back home to die," one to Missouri the other to Oklahoma; but instead of dying, both recovered completely after about six months.

## GENERAL CONSIDERATIONS.

From the investigations of Gentry and Ferenbaugh, Malta fever has existed in Texas for at least 36 years, and, from our own, it has existed in Arizona for at least 14 years. Tests made on goats in both States have shown an infection of representative herds of nearly 20 per cent. The same subtropical climate, together with numerous goat herds, exists from Texas to the Pacific coast. It is well known that goats are shipped, or are driven, back and forth between the Southwestern States and into other States as well. Whether infected goats will continue to have Malta fever and spread the same when shipped from our Southern States with subtropical climates to Northern States has not been investigated; but from the researches of Mohler and Hart [6] it is altogether probable that they will. With these conditions present, we are convinced that Malta fever must exist in New Mexico and California. There is no doubt that it exists in Mexico; at least one case developing in Mexico was studied by Woolsey [7] in St. Louis in 1918.

Goat's milk is being sold at the present time in a number of cities in the United States, usually as a fancy article and at a high price. It is consumed largely by infants and invalids, particularly by patients with tuberculosis, and in these persons Malta fever could exist for a long time without being recognized. Some of the Phoenix cases were patients with quiescent tuberculosis, fever-free for months. These cases, with a Malta-fever infection superimposed, behaved as cases in which tuberculosis had suddenly become active, and, in the absence of an epidemic, would never have been diagnosed without the most careful observation. The difficulty in recognizing so insidious a disease in infants needs no comment.

## SUMMARY.

1. Malta fever has, in all probability, existed in Texas for at least 36 years and in Arizona for at least 14 years. Absolutely authentic cases have been known in Texas since 1911 and in Arizona since 1912.

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[6] Mohler, John R., and Hart, Geo. H.: Malta Fever and the Maltese Goat Importation. 25th Annual Report, B. A. I., 1908, 279-295.

[7] Woolsey, Russ. A.: Missouri Med. Assn. *15*:165.

2. Conditions favorable for the existence and spread of Malta fever are present in all the Southwestern States.

3. More than 30 authentic cases of Malta fever occurred in the recent outbreak at Phoenix, Ariz., concerning which the following can be stated:

(*a*) These cases were typical clinically and serologically; and in two cases *B. melitensis* was recovered.

(*b*) Goat's milk is known to have been used in all but three of the cases and can not be excluded in those three.

(*c*) Tests made on the goats supplying this milk gave 18.3 per cent positives for Malta fever.

(*d*) The disease remained unrecognized for at least six weeks, under conditions unusually favorable for its recognition.

4. Goat's milk is being sold in a number of cities in the United States.

CONCLUSIONS.

From the evidence at hand we believe the following conclusions are warranted:

1. Malta fever is probably endemic in certain sections of the southwestern part of the United States and in some parts of Mexico.

2. It is extremely difficult to recognize Malta fever early in the course of an outbreak, from the clinical symptons alone; usually the possibility of its presence is not considered, and laboratory tests are not made for some weeks.

3. The prohibition of the sale of goat's milk in cities where an ample supply of cow's milk is available should be seriously considered by health officers. Where it is necessary to allow the sale of goat's milk to secure sufficient fresh milk, efficient pasteurization under constant supervision by the health authorities should be required.

*Acknowledgments:* Acknowledgment is made of the assistance and cooperation given by the State superintendent of public health, Dr. A. M. Tuthill, by the director of the State laboratory, Miss Jane Rider, by the Pathological Laboratory, by the local health authorities, and by the medical profession of Phoenix.

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## MORTALITY FROM CANCER IN THE UNITED STATES, 1921.

The Department of Commerce announces that the returns compiled by the Bureau of the Census show that over 76,000 deaths were due to cancer in the death registration area of the United States in 1921, and, assuming that the remainder of the United States had as many deaths from this cause in proportion to the population, the total number of deaths from cancer in the entire United States for

1921 was 93,000, whereas for 1920 the number is estimated as 89,000, or 4,000 less than for 1921.

The trend of the cancer death rate is upward, the rate for 1921 being higher than that for any earlier year in 23 of the 34 States for which rates are shown in the accompanying table. The cancer death rate in the registration area in 1921 was 86 per 100,000 population, against 83.4 for 1920. In comparing the death rate from cancer in one State with that in another, the bureau uses "adjusted" rates in order to make allowance for differences in the age and the sex distribution of the population, because, generally speaking, only persons in middle life and old age have cancer, so that a State with many old persons may be expected to have more deaths from cancer than a State with comparatively few old persons.

The highest "adjusted" cancer rate for 1921 is 99.6 per 100,000 population for the State of Massachusetts, and the lowest is 47.6 for the State of South Carolina.

For a few States adjusted rates have been calculated separately for the white and colored population. In this group of States the highest adjusted cancer rate for the white population is 95.9 per 100,000 population for New York, and the highest rate for the colored population is 90.6, also for New York. The lowest adjusted cancer rate for the white population is 51.5, for Tennessee, and the lowest for the colored population is 36.4, for Florida.

Summarized briefly, the adjusted rates show that the Northern States have comparatively high and the Southern States comparatively low cancer mortality, and that there is little difference between the adjusted cancer rates of the white and colored races of the same States. In other words, the white and colored races seem equally susceptible to cancer, but both races seem less susceptible in the South than in the North.

*Deaths and death rates from cancer and other malignant tumors in the registration area (exclusive of Hawaii), and in the registration States.*

| Area. | Number of deaths. | | | Adjusted rate, 1921 | Rate per 100,000 population. | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1921 | 1920 | 1919 | | 1921 | 1920 | 1919 | 1918 | 1917 |
| Registration area | 76,274 | 72,931 | 68,551 | (1) | 86.0 | 83.4 | 80.5 | 80.3 | 82.0 |
| Registration States of 1917 [2] | 64,704 | 61,750 | 58,781 | (1) | 87.9 | 85.0 | 82.1 | 80.8 | 81.5 |
| California | 4,010 | 3,800 | 3,553 | 87.7 | 111.7 | 109.2 | 105.3 | 101.3 | 100.8 |
| Colorado | 718 | 691 | 645 | 72.3 | 74.7 | 73.0 | 69.2 | 76.7 | 69.1 |
| Connecticut | 1,377 | 1,403 | 1,290 | 88.5 | 96.9 | 100.6 | 94.4 | 94.0 | 92.3 |
| Delaware | 179 | 198 | 191 | 66.9 | 79.1 | 88.4 | 86.1 | (3) | (3) |
| Florida (total) | 514 | 510 | 464 | 55.4 | 51.3 | 52.1 | 48.5 | (3) | (3) |
| White | 422 | 384 | 371 | 61.1 | 63.2 | 59.2 | 59.1 | | |
| Colored | 92 | 126 | 93 | 36.4 | 27.6 | 38.0 | 28.2 | | |
| Illinois | 6,152 | 5,991 | 5,646 | 88.0 | 93.0 | 91.8 | 87.6 | 82.2 | (3) |
| Indiana | 2,735 | 2,645 | 2,551 | 74.2 | 92.2 | 89.9 | 87.4 | 88.7 | 88.7 |
| Kansas | 1,412 | 1,283 | 1,222 | 69.3 | 79.3 | 72.4 | 69.2 | 72.8 | 71.9 |
| Kentucky (total) | 1,326 | 1,364 | 1,267 | 55.7 | 54.4 | 56.3 | 52.6 | 53.1 | 54.1 |
| White | 1,184 | 1,222 | 1,121 | 55.3 | 53.7 | 55.[illegible] | 51.6 | 53.0 | 53.4 |
| Colored | 142 | 142 | 146 | 57.8 | 61.2 | 60.5 | 61.5 | 54.2 | 59.7 |

*Deaths and death rates from cancer and other malignant tumors in the registration area exclusive of Hawaii, and in the registration States*—Continued.

| Area. | Number of deaths. | | | Adjusted rate, 1921 | Rate per 100,000 population. | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1921 | 1920 | 1919 | | 1921 | 1920 | 1919 | 1918 | 1917 |
| Louisiana (total) | 975 | 888 | 889 | 76.6 | 53.6 | 49.2 | 49.6 | 49.2 | (3) |
| White | 665 | 578 | 596 | 73.3 | 59.3 | 52.3 | 54.7 | 52.9 | ..... |
| Colored | 310 | 310 | 293 | 57.9 | 44.3 | 44.2 | 41.7 | 43.6 | ..... |
| Maine | 899 | 942 | 891 | 80.8 | 116.5 | 122.4 | 116.2 | 110.1 | 108.1 |
| Maryland (total) | 1,372 | 1,372 | 1,263 | 85.3 | 93.1 | 94.1 | 87.6 | 84.1 | 87.7 |
| White | 1,203 | 1,200 | 1,107 | 86.9 | 98.1 | 99.0 | 92.4 | 89.9 | 92.8 |
| Colored | 169 | 172 | 156 | 74.6 | 68.5 | 70.0 | 63.9 | 56.0 | 62.9 |
| Massachusetts | 4,636 | 4,469 | 4,097 | 99.6 | 118.0 | 115.3 | 107.0 | 108.7 | 109.7 |
| Michigan | 3,335 | 3,099 | 2,970 | 81.2 | 87.8 | 83.5 | 81.9 | 81.9 | 79.9 |
| Minnesota | 2,178 | 2,293 | 2,113 | 85.7 | 89.4 | 95.4 | 89.1 | 83.2 | 83.9 |
| Mississippi (total) | 749 | 686 | 673 | 52.4 | 41.8 | 38.3 | 37.6 | (3) | (3) |
| White | 385 | 348 | 365 | 52.6 | 45.1 | 40.6 | 42.9 | ..... | ..... |
| Colored | 364 | 338 | 308 | 52.0 | 38.9 | 36.2 | 32.7 | ..... | ..... |
| Missouri | 2,900 | 2,630 | 2,545 | 74.0 | 84.8 | 77.1 | 74.9 | 73.5 | 75.1 |
| Montana | 315 | 282 | 302 | 65.9 | 54.7 | 50.6 | 55.9 | 53.4 | 55.1 |
| Nebraska | 1,081 | 999 | (3) | 79.4 | 82.4 | 76.7 | (3) | (3) | (3) |
| New Hampshire | 533 | 521 | 480 | 80.4 | 119.8 | 117.4 | 108.5 | 108.6 | 105.4 |
| New Jersey | 3,033 | 2,760 | 2,725 | 92.7 | 93.3 | 86.6 | 87.2 | 81.2 | 84.4 |
| New York (total) | 11,182 | 10,554 | 10,186 | 96.0 | 105.7 | 101.0 | 98.7 | 97.3 | 97.3 |
| White | 11,012 | 10,414 | 10,025 | 95.9 | 106.3 | 101.8 | 99.2 | 98.0 | 97.8 |
| Colored | 170 | 140 | 161 | 90.6 | 76.1 | 64.6 | 76.7 | 66.5 | 74.5 |
| North Carolina (total) | 1,120 | 1,017 | 1,003 | 53.7 | 42.9 | 39.5 | 39.5 | 42.8 | 42.4 |
| White | 815 | 767 | 745 | 52.9 | 44.6 | 42.6 | 42.1 | 45.1 | 45.4 |
| Colored | 305 | 250 | 258 | 53.7 | 38.8 | 32.1 | 33.4 | 37.8 | 35.5 |
| Ohio | 5,312 | 5,171 | 4,892 | 77.7 | 89.8 | 89.0 | 85.7 | 85.6 | 87.0 |
| Oregon | 759 | 734 | 685 | 80.2 | 94.8 | 93.0 | 88.1 | 84.3 | (3) |
| Pennsylvania (total) | 7,588 | 7,315 | 7,007 | 84.1 | 85.4 | 83.4 | 80.9 | 78.3 | 80.9 |
| White | 7,383 | 7,120 | 6,845 | 84.0 | 86.0 | 83.9 | 81.7 | 78.7 | 81.4 |
| Colored | 205 | 195 | 162 | 82.3 | 68.1 | 66.8 | 57.3 | 64.7 | 65.1 |
| Rhode Island | 678 | 605 | 580 | 97.4 | 110.4 | 99.7 | 96.5 | 95.8 | 101.4 |
| South Carolina (total) | 588 | 557 | 563 | 47.6 | 34.4 | 32.9 | 33.6 | 34.4 | 36.9 |
| White | 366 | 338 | 324 | 54.8 | 43.6 | 40.9 | 39.9 | 41.4 | 45.4 |
| Colored | 222 | 219 | 239 | 38.7 | 25.5 | 25.3 | 27.7 | 28.0 | 29.1 |
| Tennessee (total) | 1,113 | 1,094 | 1,006 | 51.9 | 47.1 | 46.6 | 43.2 | 44.1 | 46.8 |
| White | 905 | 905 | 813 | 51.5 | 47.3 | 47.8 | 43.3 | 44.2 | 47.1 |
| Colored | 208 | 189 | 193 | 52.3 | 46.4 | 41.9 | 42.6 | 43.7 | 45.3 |
| Utah | 292 | 250 | 265 | 77.1 | 63.3 | 55.1 | 59.5 | 52.3 | 55.1 |
| Vermont | 400 | 444 | 399 | 77.2 | 113.5 | 126.0 | 113.2 | 103.4 | 111.2 |
| Virginia (total) | 1,329 | 1,299 | 1,202 | 62.2 | 56.6 | 55.9 | 52.3 | 53.9 | 52.6 |
| White | 1,007 | 948 | 899 | 64.0 | 60.9 | 58.2 | 56.0 | 57.1 | 54.6 |
| Colored | 322 | 351 | 303 | 55.7 | 46.4 | 50.7 | 43.9 | 46.5 | 47.9 |
| Washington | 1,192 | 1,123 | 1,045 | 79.6 | 85.8 | 82.1 | 77.7 | 75.3 | 71.9 |
| Wisconsin | 2,614 | 2,335 | 2,285 | 85.9 | 97.6 | 88.2 | 87.3 | 81.4 | 82.6 |

[1] Rate not calculated.
[2] Including District of Columbia
[3] Not admitted to registration area until a later date.

## SMALLPOX IN OLDHAM AND LONDON, ENGLAND.[1]

An outbreak of smallpox, apparently introduced from Yorkshire, where there had been an epidemic of the disease, occurred in Oldham in the early part of 1922, the first case being notified to the public health department on February 7. A total of 54 cases occurred. The type was mild, and there were no deaths.

Vaccination histories of the patients, by age groups, were given as follows.

[1] The Medical Officer, Oct. 21, 1922, p. 181; Oct. 28, 1922, p. 192.

| Age-group (years). | Vaccinated in infancy. | Unvaccinated. | Total number of cases. |
|---|---|---|---|
| 0-5 | 0 | 5 | 5 |
| 5-10 | 0 | 8 | 8 |
| 10-15 | 0 | 9 | 9 |
| 15-20 | 0 | 6 | 6 |
| 20-30 | 0 | 4 | 4 |
| 30-40 | 3 | 5 | 8 |
| 40-50 | 6 | 0 | 6 |
| 50-60 | 5 | 0 | 5 |
| Over 60 | 3 | 0 | 3 |
| Total | 17 | 37 | 54 |

The 54 cases occurred in 22 houses, in which there were 112 people altogether, 68 of the contacts escaping. The vaccination history of the 68 contacts who escaped was given as follows:

| | |
|---|---|
| Vaccinated in infancy | 29 |
| Primarily vaccinated after contact | 29 |
| Successfully vaccinated 18 years ago | 1 |
| Vaccinated or revaccinated in army | 5 |
| Unsuccessfully vaccinated after contact | 1 |
| Refused revaccination | 3 |

As stated, the infection appeared to be very mild as compared with previous outbreaks, and a fairly intimate contact was necessary before infection occurred.

In contrast to this mild type of the disease, there occurred in London, during the period July 26–October 13, 1922, 19 cases of smallpox, with five deaths—a case fatality of 28 per cent. These cases occurred in two groups of contacts, the original case in one group having been first diagnosed as chicken pox. Two of the original cases of the other group were discovered after they had nearly recovered from a mild attack, and only when a doctor was consulted in regard to the third patient, who died a few days subsequent to discovery.

Attention is called to the fact that unrecognized cases were responsible for both groups of cases, thus emphasizing the need for prompt recognition of the disease in the earliest possible stage.

The fatality rate of smallpox in London during this small outbreak presents a striking contrast to that in other parts of the country, where over 700 cases are stated to have occurred during the present year, of which only 1 has proved fatal.

The public health committee, in forwarding the report of the medical officer, Dr. W. H. Hamer, to the London county council, comments as follows:

"The danger of an epidemic of virulent smallpox in this country is, in our opinion, accentuated by the unvaccinated condition of a large proportion of the population, especially young persons. Since the passing of the vaccination act, 1898, which provided for exemption from compulsory vaccination of an infant on the production of a certificate of 'conscientious' objection by the parent, the number

of infants vaccinated throughout England and Wales has declined from 66.4 per cent of births in 1899 to 39.5 per cent in 1920. We are informed that in prevaccination days the incidence of fatality of smallpox fell chiefly upon young children, and in our view the accumulation within recent years of large numbers of young persons, deprived of the protection afforded by vaccination in infancy, might be fraught with grave consequences in the event of smallpox becoming prevalent."

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## VACCINATION ORDINANCES UPHELD BY UNITED STATES SUPREME COURT.

The following is an opinion of the Supreme Court of the United States in a case [1] in which ordinances of the city of San Antonio, Tex., requiring vaccination of school children, were held to be valid.

Mr. Justice BRANDEIS delivered the opinion of the court.

Ordinances of the City of San Antonio, Tex., provide that no child or other person shall attend a public school or other place of education without having first presented a certificate of vaccination. Purporting to act under these ordinances, public officials excluded Rosalyn Zucht from a public school because she did not have the required certificate and refused to submit to vaccination. They also caused her to be excluded from a private school. Thereupon Rosalyn brought this suit against the officials in a court of the State. The bill charges that there was then no occasion for requiring vaccination; that the ordinances deprive plaintiff of her liberty without due process of law by, in effect, making vaccination compulsory; and, also, that they are void because they leave to the board of health discretion to determine when and under what circumstances the requirement shall be enforced without providing any rule by which that board is to be guided in its action and without providing any safeguards against partiality and oppression. The prayers were for an injunction against enforcing the ordinances, for a writ of mandamus to compel her admission to the public school, and for damages. A general demurrer to the bill of complaint was sustained by the trial court; and, plaintiff having declined to amend, the bill was dismissed. This judgment was affirmed by the court of civil appeals for the fourth supreme judicial district, 225 S. W. 267; a motion for rehearing was overruled, and an application for a writ of error to the Supreme Court of Texas was denied by that court. A petition for a writ of certiorari filed in this court was dismissed for failure to comply with rule 37, 257 U. S. 650. The case is now here on writ of error granted by the chief justice of the court of civil appeals. It is assigned as error that the ordinances violate the due process and equal protection clauses of the fourteenth amendment, and that as administered they denied to plaintiff equal protection of the laws.

The validity of the ordinances under the Federal Constitution was drawn in question by objections properly taken below. A city ordinance is a law of the State within the meaning of section 237 of the Judicial Code as amended, which provides a review by writ of error where the validity of a law is sustained by the highest court of the State in which a decision in the suit could be had. Atlantic Coast Line *v.* Goldsboro, 232 U. S. 548, 555. But although the validity of a law was formally drawn in question, it is our duty to decline jurisdiction whenever it appears that the constitutional question presented is not, and was not at the time of granting the writ, substantial in character. Sugarman *v.* United States, 249 U. S. 182, 184. Long before this suit was instituted, Jacobson *v.* Massachusetts, 197 U. S. 11, had settled that it is within the police power of a State to provide for compulsory vaccination. That case and others

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[1] Zucht *v.* King et al., decided Nov. 13, 1922.

had also settled that a State may, consistently with the Federal Constitution, delegate to a municipality authority to determine under what conditions health regulations shall become operative. Laurel Hill Cemetery *v.* San Francisco, 216 U. S. 358. And still others had settled that the municipality may vest in its officials broad discretion in matters affecting the application and enforcement of a health law. Lieberman *v.* Van de Carr, 199 U. S. 552. A long line of decisions by this court had also settled that in the exercise of the police power, reasonable classification may be freely applied and that regulation is not violative of the equal protection clause merely because it is not all embracing. Adams *v.* Milwaukee, 228 U. S. 572; Miller *v.* Wilson, 236 U. S. 373, 384. In view of these decisions we find in the record no question as to the validity of the ordinance sufficiently substantial to support the writ of error. Unlike Yick Wo *v.* Hopkins, 118 U. S. 356, these ordinances confer not arbitrary power, but only that broad discretion required for the protection of the public health.

The bill contains also averments to the effect that in administering the ordinance the officials have discriminated against the plaintiff in such a way as to deny to her equal protection of the laws. These averments do present a substantial constitutional question. Neal *v.* Delaware, 103 U. S. 370. But the question is not of that character which entitles a litigant to a review by this court on writ of error. The question does not go to the validity of the ordinance; nor does it go to the validity of the authority of the officials. Compare United States *v.* Taft, 203 U. S. 461; Champion Lumber Co. *v.* Fisher, 227 U. S. 445; Yazoo & Mississippi Valley R. R. Co. *v.* Clarksdale, 257 U. S. 10, 16. This charge is of an unconstitutional exercise of authority under an ordinance which is valid. Compare Stadleman *v.* Miner, 246 U. S. 544. Unless a case is otherwise properly here on writ of error, questions of that character can be reviewed by this court only on petition for a writ of certiorari.

Writ of error dismissed.

## SHIP FUMIGATION—CORRECTION TO PRELIMINARY REPORT OF BOARD OF INVESTIGATION.

The following corrections are made in the article "Ship fumigation—Preliminary report of the board," etc., that appeared in Public Health Reports for November 3, 1922:

Page 2746: Line 6 in the paragraph headed "Methods of production" should read, "Sulphuric acid, sodium cyanide, and salt," etc., and line 8 should read, "because of delayed time of lacrimation, danger from fire, and the predominance," etc. In the formula on this page, the specific gravity of commercial hydrochloric acid should be "1.15 to 1.20," and the amount of water should be 17 instead of 34 ounces.

Page 2747: In the seventh and twentieth lines, "hydrochloric acid gas" should read "hydrocyanic acid gas."

## DEATHS DURING WEEK ENDED NOVEMBER 11, 1922.

*Summary of information received by telegraph from industrial insurance companies for week ended November 11, 1922, and corresponding week 1921. (From the Weekly Health Index, November 14, 1922, issued by the Bureau of the Census, Department of Commerce.)*

| | Week ended Nov. 11, 1922. | Corresponding week 1921. |
|---|---|---|
| Policies in force | 51,180,358 | 47,635,423 |
| Number of death claims | 7,523 | 6,493 |
| Death claims per 1,000 policies in force, annual rate | 7.7 | 7.1 |

***Deaths from all causes in certain large cities of the United States during the week ended November 11, 1922, infant mortality, annual death rate, and comparison with corresponding week of 1921. (From the Weekly Health Index, November 14, 1922, issued by the Bureau of the Census, Department of Commerce.)***

| City. | Estimated population July 1, 1922. | Week ended Nov. 11, 1922. | | Annual death rate per 1,000, corresponding week 1921. | Deaths under 1 year. | | Infant mortality rate, week ended Nov. 11, 1922.[2] |
|---|---|---|---|---|---|---|---|
| | | Total deaths. | Death rate.[1] | | Week ended Nov. 11, 1922. | Corresponding week 1921. | |
| Total | 27,948,439 | 6,534 | 12.2 | 11.4 | 851 | 726 | ..... |
| Akron, Ohio | [3] 208,435 | 38 | 9.5 | 6.5 | 4 | 3 | 44 |
| Albany, N. Y | 116,223 | 31 | 13.9 | 16.3 | 6 | 2 | 138 |
| Atlanta, Ga | 220,047 | 56 | 13.3 | 11.8 | 8 | 5 | ..... |
| Baltimore, Md | 762,222 | 187 | 12.8 | 12.2 | 24 | 21 | 68 |
| Birmingham, Ala | 191,017 | 41 | 11.2 | 11.2 | 4 | 4 | ..... |
| Boston, Mass | 764,017 | 221 | 15.1 | 12.5 | 32 | 24 | 86 |
| Bridgeport, Conn | [3] 143,555 | 20 | 7.3 | 6.5 | 0 | 2 | 0 |
| Buffalo, N. Y | 528,163 | 130 | 12.8 | 11.4 | 19 | 16 | 75 |
| Cambridge, Mass | 110,944 | 26 | 12.2 | 12.7 | 4 | 5 | 68 |
| Camden, N. J | 121,915 | 30 | 12.8 | 10.5 | 5 | 5 | 78 |
| Chicago, Ill | 2,833,288 | 577 | 10.6 | 10.1 | 86 | 80 | ..... |
| Cincinnati, Ohio | 404,865 | 117 | 15.1 | 13.3 | 12 | 6 | 77 |
| Cleveland, Ohio | 854,565 | 156 | 9.5 | 10.8 | 25 | 23 | 65 |
| Columbus, Ohio | 253,455 | 60 | 12.3 | 12.4 | 8 | 8 | 84 |
| Dallas, Tex | 171,974 | 48 | 14.6 | 10.7 | 7 | 6 | ..... |
| Dayton, Ohio | 161,824 | 28 | 9.0 | 12.2 | 2 | 4 | 32 |
| Denver, Colo | 267,591 | 104 | 20.3 | 12.3 | 12 | 3 | ..... |
| Detroit, Mich | [3] 993,678 | 197 | 10.3 | 10.9 | 51 | 32 | 96 |
| Fall River, Mass | 120,790 | 35 | 15.1 | 13.4 | 4 | 3 | 56 |
| Fort Worth, Tex | 114,717 | 17 | 7.7 | 10.8 | 2 | 3 | ..... |
| Grand Rapids, Mich | 143,572 | 31 | 11.3 | 12.9 | 4 | 6 | 62 |
| Houston, Tex | 150,087 | 26 | 9.0 | 13.0 | 3 | 2 | ..... |
| Indianapolis, Ind | 333,257 | 95 | 14.9 | 14.4 | 11 | 6 | 81 |
| Jersey City, N. J | 305,911 | 76 | 13.0 | 11.9 | 12 | 10 | 77 |
| Kansas City, Mo | 343,988 | 80 | 12.1 | 13.8 | 8 | 9 | ..... |
| Los Angeles, Calif | 634,866 | 167 | 13.7 | 13.6 | 8 | 19 | 33 |
| Louisville, Ky | 256,877 | 64 | 13.0 | 16.1 | 9 | 7 | 96 |
| Lowell, Mass | 114,423 | 31 | 14.1 | 11.5 | 4 | 4 | 66 |
| Memphis, Tenn | 167,862 | 62 | 19.3 | 16.4 | 6 | 3 | ..... |
| Milwaukee, Wis | 476,603 | 73 | 8.0 | 7.4 | 7 | 8 | 34 |
| Minneapolis, Minn | 400,970 | 83 | 10.8 | 10.4 | 12 | 10 | 66 |
| Nashville, Tenn | 122,832 | 42 | 17.8 | 17.1 | 4 | 3 | ..... |
| New Bedford, Mass | 127,542 | 24 | 9.8 | 11.3 | 6 | 6 | 86 |
| New Haven, Conn | 169,987 | 40 | 12.3 | 12.8 | 7 | 4 | 85 |
| New Orleans, La | 399,616 | 105 | 13.7 | 16.1 | 12 | 7 | ..... |
| New York, N. Y | 5,839,746 | 1,326 | 11.8 | 10.2 | 171 | 143 | 67 |
| Bronx Borough | 809,536 | 142 | 9.1 | 8.9 | 18 | 21 | 61 |
| Brooklyn Borough | 2,117,164 | 454 | 11.2 | 9.2 | 69 | 43 | 72 |
| Manhattan Borough | 2,271,888 | 599 | 13.7 | 11.8 | 67 | 66 | 62 |
| Queens Borough | 516,757 | 99 | 10.0 | 8.0 | 14 | 9 | 75 |
| Richmond Borough | 124,401 | 32 | 13.4 | 14.2 | 3 | 4 | 55 |
| Newark, N. J | 431,792 | 80 | 9.7 | 11.5 | 11 | 21 | 49 |
| Norfolk, Va | 124,915 | 25 | 10.4 | 13.3 | 2 | 4 | 37 |
| Oakland, Calif | 233,279 | 54 | 12.1 | 9.2 | 7 | 4 | 87 |
| Omaha, Nebr | 200,739 | 50 | 13.0 | 8.5 | 7 | 7 | 76 |
| Paterson, N. J | 138,521 | 23 | 8.7 | 10.6 | 3 | 1 | 47 |
| Philadelphia, Pa | 1,894,500 | 510 | 14.0 | 12.0 | 68 | 48 | 82 |
| Pittsburgh, Pa | 607,902 | 173 | 14.8 | 15.2 | 18 | 31 | 60 |
| Portland, Oreg | 269,240 | 54 | 10.5 | 8.9 | 3 | 3 | 29 |
| Providence, R. I | 241,011 | 68 | 14.7 | 9.6 | 10 | 6 | 79 |
| Richmond, Va | 178,365 | 44 | 12.9 | 21.7 | 3 | 11 | 36 |
| Rochester, N. Y | 311,548 | 69 | 11.5 | 11.6 | 8 | 10 | 61 |
| St. Louis, Mo | 795,008 | 187 | 12.3 | 12.5 | 21 | 17 | ..... |
| St. Paul, Minn | 239,836 | 48 | 10.4 | 10.3 | 6 | 5 | 56 |
| Salt Lake City, Utah | 123,918 | 29 | 12.2 | 11.6 | 7 | 2 | 107 |
| San Antonio, Tex | 178,056 | 47 | 13.8 | ..... | 8 | ..... | ..... |
| San Francisco, Calif | 529,792 | 127 | 12.5 | 11.7 | 8 | 8 | 45 |
| Seattle, Wash | [3] 315,312 | 53 | 8.8 | 7.6 | 3 | 5 | 28 |
| Spokane, Wash | 104,445 | 21 | 10.5 | 15.0 | 1 | 2 | 20 |
| Springfield, Mass | 140,052 | 40 | 14.9 | 7.3 | 3 | 2 | 46 |
| Syracuse, N. Y | 181,012 | 44 | 12.7 | 12.0 | 8 | 1 | 96 |
| Toledo, Ohio | 260,717 | 46 | 9.2 | 13.4 | 6 | 3 | 58 |
| Trenton, N. J | 125,075 | 58 | 24.2 | 11.5 | 7 | 5 | 108 |
| Washington, D. C | [3] 437,571 | 119 | 14.2 | 13.1 | 12 | 20 | 70 |
| Wilmington, Del | 115,568 | 22 | 9.9 | 10.1 | 6 | 3 | 118 |
| Worcester, Mass | 188,449 | 44 | 12.2 | 8.2 | 8 | 1 | 86 |
| Yonkers, N. Y | 105,422 | 25 | 12.4 | 8.1 | 5 | 2 | 103 |
| Youngstown, Ohio | 144,970 | 30 | 10.8 | 9.7 | 3 | 2 | 39 |

[1] Annual rate per 1,000 population.
[2] Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1921. Cities left blank are not in the registration area for births.
[3] Enumerated population Jan. 1, 1920.

# PREVALENCE OF DISEASE.

*No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.*

# UNITED STATES.

## CURRENT STATE SUMMARIES.

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers.

### Reports for Week Ended November 18, 1922.

ALABAMA.

| | Cases. |
|---|---|
| Dengue | 56 |
| Diphtheria | 30 |
| Hookworm disease | 15 |
| Influenza | 25 |
| Malaria | 38 |
| Pellagra | 1 |
| Poliomyelitis | 1 |
| Scarlet fever | 15 |
| Smallpox | 1 |
| Tuberculosis | 12 |
| Typhoid fever | 14 |

ARKANSAS.

| | |
|---|---|
| Chicken pox | 34 |
| Diphtheria | 32 |
| Hookworm disease | 1 |
| Influenza | 19 |
| Malaria | 43 |
| Measles | 1 |
| Pellagra | 4 |
| Pneumonia | 1 |
| Scarlet fever | 10 |
| Smallpox | 1 |
| Trachoma | 1 |
| Tuberculosis | 19 |
| Typhoid fever | 17 |
| Whooping cough | 2 |

CALIFORNIA.

| | |
|---|---|
| Cerebrospinal meningitis: | |
| Oakland | 1 |
| Orange County | 1 |
| Diphtheria | 176 |
| Influenza | 19 |
| Measles | 13 |
| Scarlet fever | 133 |
| Smallpox | 9 |
| Typhoid fever | 12 |

COLORADO.

(Exlusive of Denver.)

| | Cases. |
|---|---|
| Chicken pox | 7 |
| Diphtheria | 13 |
| Measles | 3 |
| Paratyphoid fever | 1 |
| Pneumonia | 2 |
| Scarlet fever | 16 |
| Smallpox | 19 |
| Tuberculosis | 24 |
| Typhoid fever | 12 |

CONNECTICUT.

| | |
|---|---|
| Cerebrospinal meningitis | 2 |
| Chicken pox | 60 |
| Conjunctivitis | 1 |
| Diphtheria | 85 |
| German measles | 3 |
| Influenza | 5 |
| Lethargic encephalitis | 1 |
| Malaria | 16 |
| Measles | 206 |
| Mumps | 24 |
| Paratyphoid fever | 1 |
| Pneumonia (lobar) | 30 |
| Scarlet fever | 85 |
| Smallpox | 2 |
| Tetanus | 1 |
| Tuberculosis (all forms) | 64 |
| Typhoid fever | 5 |
| Whooping cough | 63 |

DELAWARE.

| | |
|---|---|
| Chicken pox | 3 |
| Influenza | 4 |
| Measles | 5 |
| Pneumonia | 5 |
| Scarlet fever: | |
| Wilmington | 8 |
| Scattering | 4 |

DELAWARE—continued.

| | Cases. |
|---|---|
| Tuberculosis | 3 |
| Typhoid fever | 3 |
| Whooping cough | 2 |

FLORIDA.

| | |
|---|---|
| Dengue | 61 |
| Diphtheria | 35 |
| Influenza | 28 |
| Malaria | 50 |
| Pneumonia | 29 |
| Poliomyelitis | 1 |
| Scarlet fever | 2 |
| Trichinosis | 1 |
| Typhoid fever | 15 |

GEORGIA.

| | |
|---|---|
| Chicken pox | 4 |
| Conjunctivitis (infectious) | 2 |
| Dengue | 30 |
| Diphtheria | 137 |
| Dysentery (bacillary) | 1 |
| Hookworm disease | 4 |
| Influenza | 72 |
| Malaria | 25 |
| Mumps | 1 |
| Pellagra | 1 |
| Pneumonia | 14 |
| Scarlet fever | 9 |
| Septic sore throat | 1 |
| Tetanus | 1 |
| Tuberculosis (all forms) | 12 |
| Typhoid fever | 6 |

ILLINOIS.

| | |
|---|---|
| Diphtheria: | |
| Cass County | 8 |
| Cook County (including Chicago) | 301 |
| Chicago | 267 |
| Crawford County | 14 |
| Edgar County | 12 |
| Greene County | 8 |
| Jersey County | 10 |
| Kane County | 18 |
| La Salle County | 12 |
| Lake County | 20 |
| Macoupin County | 10 |
| Madison County | 15 |
| Randolph County | 10 |
| St. Clair County | 9 |
| Saline County | 14 |
| Stephenson County | 8 |
| Vermilion County | 12 |
| Wayne County | 8 |
| Scattering | 160 |
| Influenza | 22 |
| Pneumonia | 238 |
| Poliomyelitis: | |
| Crawford County | 1 |
| St. Clair County | 1 |
| Scarlet fever: | |
| Bureau County | 12 |
| Cook County (including Chicago) | 115 |
| Chicago | 99 |
| Edgar County | 20 |
| Kane County | 16 |
| La Salle County | 12 |

ILLINOIS—continued.

| | Cases. |
|---|---|
| Scarlet fever—Continued. | |
| Lake County | 12 |
| McLean County | 20 |
| Macon County | 9 |
| Morgan County | 9 |
| Peoria County | 16 |
| Piatt County | 9 |
| Whiteside County | 11 |
| Scattering | 171 |
| Smallpox: | |
| De Kalb County | 8 |
| Whiteside County | 24 |
| Scattering | 11 |
| Typhoid fever: | |
| Fayette County | 8 |
| Scattering | 47 |
| Whooping cough | 178 |

INDIANA.

| | |
|---|---|
| Diphtheria | 243 |
| Scarlet fever | 133 |
| Smallpox | 25 |
| Typhoid fever | 11 |

IOWA.

| | |
|---|---|
| Diphtheria | 136 |
| Scarlet fever | 128 |
| Smallpox | 7 |
| Typhoid fever | 2 |

KANSAS.

| | |
|---|---|
| Chicken pox | 76 |
| Diphtheria | 175 |
| Influenza | 5 |
| Measles | 18 |
| Mumps | 13 |
| Pellagra | 1 |
| Pneumonia | 21 |
| Scarlet fever | 171 |
| Smallpox | 4 |
| Tuberculosis | 31 |
| Typhoid fever | 10 |
| Whooping cough | 9 |

LOUISIANA.

| | |
|---|---|
| Dengue | 285 |
| Diphtheria | 35 |
| Influenza | 6 |
| Scarlet fever | 11 |
| Smallpox | 6 |
| Typhoid fever | 22 |

MARYLAND.[1]

| | |
|---|---|
| Chicken pox | 40 |
| Diphtheria | 104 |
| Dysentery | 1 |
| German measles | 4 |
| Influenza | 22 |
| Lethargic encephalitis | 1 |
| Malaria | 4 |
| Measles | 128 |
| Mumps | 39 |
| Ophthalmia neonatorum | 2 |
| Paratyphoid fever | 2 |
| Pellagra | 1 |
| Pneumonia (all forms) | 63 |

[1] Week ended Friday.

MARYLAND—continued.

| | Cases. |
|---|---|
| Scabies | 1 |
| Scarlet fever | 82 |
| Septic sore throat | 3 |
| Tuberculosis | 43 |
| Typhoid fever | 28 |
| Whooping cough | 69 |

MASSACHUSETTS.

| | |
|---|---|
| Anthrax | 1 |
| Cerebrospinal meningitis | 5 |
| Chicken pox | 201 |
| Conjunctivitis (suppurative) | 12 |
| Diphtheria | 374 |
| German measles | 2 |
| Influenza | 10 |
| Lethargic encephalitis | 2 |
| Measles | 321 |
| Mumps | 121 |
| Ophthalmia neonatorum | 14 |
| Pellagra | 1 |
| Pneumonia (lobar) | 132 |
| Poliomyelitis | 4 |
| Scarlet fever | 207 |
| Septic sore throat | 4 |
| Smallpox | 1 |
| Trachoma | 5 |
| Tuberculosis (all forms) | 168 |
| Typhoid fever | 25 |
| Whooping cough | 297 |

MICHIGAN.

| | |
|---|---|
| Diphtheria | 326 |
| Measles | 30 |
| Pneumonia | 106 |
| Scarlet fever | 290 |
| Smallpox | 12 |
| Tuberculosis | 56 |
| Typhoid fever | 27 |
| Whooping cough | 122 |

MINNESOTA.

| | |
|---|---|
| Chicken pox | 21 |
| Diphtheria | 230 |
| Measles | 1 |
| Pneumonia | 6 |
| Scarlet fever | 219 |
| Smallpox | 49 |
| Tuberculosis | 44 |
| Typhoid fever | 6 |
| Whooping cough | 2 |

MISSISSIPPI.

| | |
|---|---|
| Dengue | 123 |
| Diphtheria | 48 |
| Scarlet fever | 7 |
| Smallpox | 2 |
| Typhoid fever | 6 |

MISSOURI.

| | |
|---|---|
| Chicken pox | 27 |
| Diphtheria | 106 |
| Epidemic sore throat | 5 |
| Influenza | 6 |
| Measles | 2 |
| Mumps | 2 |
| Pneumonia | 2 |
| Scarlet fever | 85 |
| Tuberculosis | 28 |
| Typhoid fever | 16 |
| Whooping cough | 6 |

MONTANA.

| | Cases. |
|---|---|
| Diphtheria | 12 |
| Scarlet fever | 27 |
| Smallpox | 5 |
| Typhoid fever | 1 |

NEBRASKA.

| | |
|---|---|
| Cerebrospinal meningitis—York | 1 |
| Chicken pox | 36 |
| Diphtheria: | |
| Nemaha County | 14 |
| Norfolk | 12 |
| Omaha | 13 |
| Scattering | 16 |
| Lethargic encephalitis—Omaha | 1 |
| Measles | 4 |
| Mumps | 2 |
| Scarlet fever: | |
| Adams County | 14 |
| Omaha | 10 |
| Scattering | 67 |
| Typhoid fever | 5 |

NEW JERSEY.

| | |
|---|---|
| Anthrax | 1 |
| Chicken pox | 161 |
| Cerebrospinal meningitis | 1 |
| Diphtheria | 295 |
| Dysentery | 1 |
| Influenza | 10 |
| Measles | 254 |
| Pneumonia | 142 |
| Poliomyelitis | 6 |
| Scarlet fever | 145 |
| Smallpox | 1 |
| Typhoid fever | 21 |
| Whooping cough | 146 |

NEW MEXICO.

| | |
|---|---|
| Chicken pox | 34 |
| Diphtheria | 31 |
| Pneumonia | 2 |
| Scarlet fever | 10 |
| Tuberculosis | 28 |
| Typhoid fever | 10 |
| Whooping cough | 1 |

NEW YORK.

(Exclusive of New York City.)

| | |
|---|---|
| Diphtheria | 258 |
| Influenza | 16 |
| Lethargic encephalitis | 1 |
| Measles | 155 |
| Pneumonia | 178 |
| Poliomyelitis | 8 |
| Scarlet fever | 283 |
| Smallpox | 1 |
| Typhoid fever | 27 |
| Whooping cough | 256 |

NORTH CAROLINA.

| | |
|---|---|
| Chicken pox | 114 |
| Diphtheria | 293 |
| German measles | 5 |
| Measles | 34 |
| Ophthalmia neonatorum | 3 |
| Poliomyelitis | 1 |
| Scarlet fever | 121 |
| Septic sore throat | 7 |

| NORTH CAROLINA—continued. | Cases |
|---|---|
| Smallpox | 17 |
| Typhoid fever | 10 |
| Whooping cough | 100 |

OREGON.

| | |
|---|---|
| Cerebrospinal meningitis | 1 |
| Chicken pox | 22 |
| Diphtheria: | |
| Portland | 12 |
| Scattering | 8 |
| Influenza | 3 |
| Leprosy | 1 |
| Measles | 5 |
| Mumps | 4 |
| Pneumonia | [1] 2 |
| Scarlet fever: | |
| Portland | 9 |
| Scattering | 6 |
| Smallpox | 6 |
| Tuberculosis | 6 |
| Typhoid fever | 6 |
| Whooping cough | 1 |

TEXAS.

| | |
|---|---|
| Cerebrospinal meningitis | 3 |
| Dengue | 235 |
| Diphtheria | 93 |
| Influenza | 8 |
| Pellagra | 5 |
| Pneumonia | 19 |
| Scarlet fever | 18 |
| Smallpox | 11 |
| Typhoid fever | 44 |

WASHINGTON.

| | |
|---|---|
| Chicken pox | 55 |
| Diphtheria | 23 |
| Mumps | 31 |
| Pneumonia | 1 |
| Poliomyelitis—King County | 1 |
| Scarlet fever | 24 |
| Smallpox | 12 |

| WASHINGTON—continued. | Cases. |
|---|---|
| Typhoid fever | 9 |
| Whooping cough | 20 |

WEST VIRGINIA.

| | |
|---|---|
| Diphtheria: | |
| Charleston | 11 |
| Huntington | 10 |
| Scattering | 30 |
| Scarlet fever | 28 |
| Typhoid fever | 7 |

WISCONSIN.

| | |
|---|---|
| Milwaukee: | |
| Chicken pox | 25 |
| Diphtheria | 29 |
| German measles | 2 |
| Measles | 556 |
| Pneumonia | 2 |
| Scarlet fever | 43 |
| Tuberculosis | 14 |
| Whooping cough | 14 |
| Scattering: | |
| Chicken pox | 113 |
| Diphtheria | 82 |
| Influenza | 36 |
| Measles | 132 |
| Pneumonia | 3 |
| Poliomyelitis | 1 |
| Scarlet fever | 112 |
| Smallpox | 31 |
| Tuberculosis | 23 |
| Typhoid fever | 9 |
| Whooping cough | 68 |

WYOMING.

| | |
|---|---|
| Chicken pox | 2 |
| Diphtheria | 1 |
| Influenza | 1 |
| Measles | 1 |
| Pneumonia | 1 |
| Scarlet fever | 4 |
| Tuberculosis | 2 |
| Typhoid fever | 2 |
| Whooping cough | 4 |

## Reports for Week Ended November 11, 1922.

| DISTRICT OF COLUMBIA. | Cases. |
|---|---|
| Chicken pox | 13 |
| Diphtheria | 25 |
| Measles | 2 |
| Scarlet fever | 15 |
| Tuberculosis | 26 |
| Typhoid fever | 1 |
| Whooping cough | 8 |

KENTUCKY.

| | |
|---|---|
| Cerebrospinal meningitis—Rowan County | 1 |
| Chicken pox | 9 |
| Diphtheria: | |
| Jefferson County | 29 |
| Scattering | 39 |
| Influenza | 17 |
| Malaria | 2 |
| Measles—Henderson County | 28 |
| Pneumonia | 25 |
| Scarlet fever | 15 |

| KENTUCKY—continued. | Cases. |
|---|---|
| Septic sore throat | 5 |
| Smallpox | 1 |
| Tonsilitis | 1 |
| Trachoma | 1 |
| Tuberculosis | 9 |
| Typhoid fever | 14 |
| Whooping cough | 13 |

MAINE.

| | |
|---|---|
| Cerebrospinal meningitis | 1 |
| Chicken pox | 13 |
| Diphtheria | 52 |
| Influenza | 1 |
| Measles | 22 |
| Pneumonia | 11 |
| Poliomyelitis | 1 |
| Scarlet fever | 25 |
| Tuberculosis | 4 |
| Typhoid fever | 1 |
| Whooping cough | 49 |

[1] Deaths.

NORTH DAKOTA.

| | Cases. |
|---|---|
| Cerebrospinal meningitis | 1 |
| Chicken pox | 3 |
| Diphtheria | 9 |
| Mumps | 1 |
| Pneumonia | 6 |
| Poliomyelitis | 2 |

NORTH DAKOTA—continued.

| | Cases. |
|---|---|
| Scarlet fever | 23 |
| Smallpox | 11 |
| Tuberculosis | 2 |
| Typhoid fever | 3 |
| Whooping cough | 7 |

## SUMMARY OF CASES REPORTED MONTHLY BY STATES.

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

| State. | Cerebrospinal meningitis. | Diphtheria. | Influenza. | Malaria. | Measles. | Pellagra. | Poliomyelitis. | Scarlet fever. | Smallpox. | Typhoid fever. |
|---|---|---|---|---|---|---|---|---|---|---|
| *September, 1922.* | | | | | | | | | | |
| Montana | ..... | 29 | 1 | ..... | 4 | ..... | 9 | 34 | 14 | 39 |
| New Mexico | ..... | 89 | 2 | 2 | 1 | ..... | ..... | 23 | ..... | 83 |
| North Dakota | ..... | 34 | ..... | ..... | 3 | ..... | 2 | 33 | 7 | 6 |
| *October, 1922.* | | | | | | | | | | |
| Louisiana | 2 | 109 | 34 | 120 | 2 | 4 | 4 | 21 | 14 | 65 |
| Michigan | ..... | 1,122 | ..... | 3 | 59 | ..... | 2 | 1,081 | 39 | 173 |
| Montana | 1 | 25 | 1 | ..... | 1 | ..... | 1 | 50 | 42 | 15 |
| New Mexico | ..... | 117 | ..... | 2 | 2 | ..... | ..... | 35 | ..... | 94 |
| New York | 20 | 1,488 | 163 | 53 | 463 | ..... | 159 | 1,126 | 42 | 302 |
| North Dakota | 1 | 90 | ..... | ..... | 3 | ..... | 4 | 87 | 42 | 31 |
| West Virginia | 5 | 477 | 19 | ..... | 37 | ..... | ..... | 344 | 20 | 168 |

## MALTA FEVER.

### Baltimore, Md.

One case of Malta fever was reported in Baltimore, Md., under date of November 16, 1922.

## CITY REPORTS FOR WEEK ENDED NOVEMBER 4, 1922.

### CEREBROSPINAL MENINGITIS.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

| City. | Median for previous years. | Week ended Nov. 4, 1922. | |
|---|---|---|---|
| | | Cases. | Deaths. |
| California: | | | |
| Oakland | 0 | 1 | 1 |
| Illinois: | | | |
| Chicago | 3 | 1 | ..... |
| Massachusetts: | | | |
| Boston | 1 | 1 | 1 |
| Leominster | 0 | ..... | 1 |
| Michigan: | | | |
| Detroit | 0 | 1 | ..... |
| New York: | | | |
| New York | 3 | 4 | 3 |
| Port Chester | 0 | ..... | 1 |
| Oregon: | | | |
| Portland | 0 | 1 | 1 |
| Pennsylvania: | | | |
| Allentown | 0 | 1 | ..... |
| Canonsburg | ..... | 1 | ..... |
| Tennessee: | | | |
| Nashville | 0 | 1 | 1 |
| Utah: | | | |
| Salt Lake City | 0 | 1 | 1 |

## CITY REPORTS FOR WEEK ENDED NOVEMBER 4, 1922—Continued.

### DENGUE.

| City. | Cases. | Deaths. | City. | Cases. | Deaths. |
|---|---|---|---|---|---|
| Florida: | | | South Carolina: | | |
| Tampa | 3 | | Charleston | 16 | 1 |
| Georgia: | | | | | |
| Albany | 7 | | | | |
| Macon | 25 | | | | |

### DIPHTHERIA.

See p. 2917; also Current State summaries, p. 2906; and Monthly summaries, by States, p. 2910.

### INFLUENZA.

| City. | Cases. | | Deaths, week ended Nov. 4, 1922. | City. | Cases. | | Deaths, week ended Nov. 4, 1922. |
|---|---|---|---|---|---|---|---|
| | Week ended Nov. 5, 1921. | Week ended Nov. 4, 1922. | | | Week ended Nov. 5, 1921. | Week ended Nov. 4, 1922. | |
| Alabama: | | | | Michigan: | | | |
| Mobile | | | 2 | Detroit | 1 | 2 | 3 |
| Arkansas: | | | | Grand Rapids | 1 | | |
| Little Rock | 1 | | | Hamtramck | 1 | | |
| California: | | | | Minnesota: | | | |
| Los Angeles | | 7 | | Mankato | | 1 | |
| Oakland | | 2 | | Missouri: | | | |
| San Diego | 1 | | | Independence | | | 1 |
| San Francisco | 3 | 3 | 3 | Kansas City | | 1 | 1 |
| Santa Ana | | 3 | | New Jersey: | | | |
| Connecticut: | | | | Bloomfield | 1 | | |
| Meriden | | 2 | 1 | Hackensack | | 1 | |
| New London | | 1 | | Hoboken | | 1 | |
| District of Columbia: | | | | Jersey City | 1 | | |
| Washington | 1 | 2 | 2 | Kearny | 6 | 1 | |
| Florida: | | | | Montclair | 3 | | |
| Tampa | 4 | | | Newark | 7 | | |
| Georgia: | | | | Paterson | 1 | | |
| Atlanta | 3 | 1 | | Trenton | | 3 | 2 |
| Idaho: | | | | New York: | | | |
| Pocatello | | | 1 | Albany | 5 | | |
| Illinois: | | | | Buffalo | 1 | | |
| Chicago | 19 | 10 | 2 | New York | 20 | 41 | 5 |
| Indiana: | | | | North Carolina: | | | |
| Hammond | | | 1 | Greensboro | 1 | | |
| Kansas: | | | | Ohio: | | | |
| Wichita | 1 | | | Cincinnati | | | 2 |
| Kentucky: | | | | Cleveland | 2 | | |
| Lexington | 1 | | | Oklahoma: | | | |
| Louisville | | 3 | | Oklahoma | | | 1 |
| Louisiana: | | | | Pennsylvania: | | | |
| Baton Rouge | 2 | 1 | | Philadelphia | | 2 | 3 |
| New Orleans | 6 | 6 | 4 | Rhode Island: | | | |
| Maine: | | | | Providence | 1 | | |
| Bangor | | 1 | 1 | South Dakota: | | | |
| Maryland: | | | | Sioux Falls | 1 | | |
| Baltimore | 8 | | | Utah: | | | |
| Cumberland | 2 | | | Salt Lake City | | | 1 |
| Massachusetts: | | | | Virginia: | | | |
| Boston | 1 | 5 | | Danville | 2 | | |
| Fall River | | 1 | | Roanoke | 3 | | |
| Lynn | 1 | | | Wisconsin: | | | |
| Malden | | | 1 | Kenosha | 1 | | |
| Quincy | | 3 | | | | | |
| Saugus | 4 | | | | | | |
| Worcester | | | 1 | | | | |

## CITY REPORTS FOR WEEK ENDED NOVEMBER 4, 1922—Continued.

### LEPROSY.

| City. | Cases. | Deaths. | City. | Cases. | Deaths. |
|---|---|---|---|---|---|
| Connecticut: | | | Louisiana: | | |
| Hartford | 1 | | New Orleans | 1 | |

### LETHARGIC ENCEPHALITIS.

| City. | Cases. | Deaths. |
|---|---|---|
| Massachusetts: | | |
| Everett | 1 | |

### MALARIA.

| City. | Cases. | Deaths. | City. | Cases. | Deaths. |
|---|---|---|---|---|---|
| Alabama: | | | Louisiana: | | |
| Birmingham | 50 | | New Orleans | 2 | 1 |
| California: | | | Massachusetts: | | |
| Sacramento | 3 | | Boston | 1 | |
| San Francisco | 1 | | New York: | | |
| Georgia: | | | New York | 2 | |
| Augusta | 2 | 1 | Pennsylvania: | | |
| Macon | 2 | | Philadelphia | 1 | |
| Savannah | 3 | | Tennessee: | | |
| Illinois: | | | Memphis | 8 | |
| Chicago | | 1 | Texas: | | |
| | | | Abilene | 3 | |

### MEASLES.

See p. 2917; also Current State summaries, p. 2906; and Monthly summaries by States, p. 2910.

### PELLAGRA.

| City. | Cases. | Deaths. | City. | Cases. | Deaths. |
|---|---|---|---|---|---|
| Massachusetts: | | | Texas: | | |
| Fall River | 1 | | Abilene | 4 | |
| North Carolina: | | | Dallas | | 1 |
| Winston-Salem | | 1 | El Paso | | 1 |
| South Carolina: | | | Houston | | 1 |
| Greenville | | 1 | Virginia: | | |
| | | | Norfolk | | 1 |

### PNEUMONIA (ALL FORMS).

| | | | | | |
|---|---|---|---|---|---|
| Alabama: | | | Connecticut: | | |
| Birmingham | | 7 | Bridgeport | | 1 |
| Montgomery | | 1 | Fairfield | 1 | |
| Arizona: | | | Greenwich | 1 | |
| Tucson | | 1 | Hartford | 1 | |
| California: | | | Manchester | 1 | |
| Los Angeles | 32 | 12 | Meriden | 1 | |
| Oakland | 4 | 2 | New Haven | | 4 |
| Pasadena | | 1 | New London | | 1 |
| Sacramento | 3 | 1 | District of Columbia: | | |
| San Bernardino | | 1 | Washington | | 11 |
| San Diego | 3 | 1 | Florida: | | |
| San Francisco | 6 | 4 | Key West | | 1 |
| Stockton | | 3 | Georgia: | | |
| Colorado: | | | Atlanta | | 9 |
| Denver | | 7 | Augusta | 2 | 1 |
| Pueblo | | 3 | Savannah | | 3 |

## CITY REPORTS FOR WEEK ENDED NOVEMBER 4, 1922—Continued.

### PNEUMONIA (ALL FORMS)—Continued.

| City. | Cases. | Deaths. |
|---|---|---|
| Illinois: | | |
| Alton | | 1 |
| Aurora | | 1 |
| Bloomington | | 1 |
| Blue Island | | 1 |
| Chicago | 144 | 44 |
| Chicago Heights | | 1 |
| Cicero | 2 | |
| Evanston | 1 | |
| Forest Park | 1 | |
| Freeport | | 1 |
| Galesburg | | 2 |
| Kewanee | 4 | |
| La Salle | 3 | 1 |
| Pekin | 2 | |
| Peoria | | 2 |
| Quincy | | 1 |
| Springfield | | 1 |
| Indiana: | | |
| Fort Wayne | | 3 |
| Gary | | 1 |
| Hammond | | 1 |
| Indianapolis | | 8 |
| South Bend | | 1 |
| Terre Haute | | 1 |
| Iowa: | | |
| Burlington | 2 | 1 |
| Council Bluffs | | 1 |
| Kansas: | | |
| Kansas City | 4 | |
| Leavenworth | | 1 |
| Parsons | 1 | |
| Topeka | 1 | |
| Wichita | | 2 |
| Kentucky: | | |
| Lexington | | 1 |
| Louisville | | 10 |
| Louisiana: | | |
| Baton Rouge | 1 | |
| New Orleans | 19 | 11 |
| Maine: | | |
| Lewiston | | 2 |
| Portland | | 2 |
| Sanford | | 1 |
| Maryland: | | |
| Cumberland | | 1 |
| Massachusetts: | | |
| Attleboro | 1 | |
| Boston | | 18 |
| Brookline | 1 | |
| Cambridge | 3 | 2 |
| Chelsea | 3 | 2 |
| Chicopee | | 3 |
| Dedham | | 1 |
| Easthampton | | 1 |
| Fall River | 2 | 1 |
| Framingham | | 1 |
| Greenfield | 2 | 1 |
| Haverhill | 1 | |
| Holyoke | | 1 |
| Leominster | 1 | |
| Lowell | | 5 |
| Lynn | 2 | |
| Melrose | 1 | |
| New Bedford | 4 | 1 |
| Newburyport | | 2 |
| Pittsfield | | 3 |
| Plymouth | | 1 |
| Quincy | 3 | 1 |
| Somerville | 3 | 1 |
| Southbridge | | 1 |
| Springfield | 3 | 2 |
| Taunton | | 1 |
| Waltham | 1 | |
| Watertown | | 1 |
| Worcester | 10 | 2 |
| Michigan: | | |
| Ann Arbor | 2 | 1 |
| Battle Creek | 1 | |
| Detroit | 43 | 20 |
| Michigan—Continued. | | |
| Grand Rapids | 2 | |
| Kalamazoo | | 3 |
| Marquette | 1 | |
| Saginaw | | 2 |
| Sault Ste. Marie | 1 | |
| Minnesota: | | |
| Duluth | 6 | 2 |
| Hibbing | | 1 |
| Minneapolis | | 3 |
| St. Paul | | 6 |
| Missouri: | | |
| Independence | | 1 |
| Kansas City | 17 | 12 |
| St. Joseph | | 1 |
| Springfield | | 1 |
| Montana: | | |
| Butte | | 1 |
| Nebraska: | | |
| Lincoln | 1 | |
| Omaha | | 7 |
| New Hampshire: | | |
| Nashua | | 1 |
| New Jersey: | | |
| Atlantic City | | 2 |
| Bloomfield | 1 | |
| East Orange | 1 | |
| Garfield | 1 | |
| Hoboken | | 3 |
| Jersey City | 5 | |
| Montclair | | 1 |
| Orange | 4 | 2 |
| Passaic | | 1 |
| Paterson | 2 | |
| Perth Amboy | | 2 |
| Plainfield | | 2 |
| Trenton | 9 | |
| West Hoboken | 1 | |
| West Orange | 3 | |
| New York: | | |
| Auburn | 2 | 1 |
| Hornell | | 1 |
| Ithaca | | 1 |
| Lackawanna | 2 | 1 |
| Lockport | | 1 |
| Middletown | | 1 |
| New York | 190 | 106 |
| Niagara Falls | 4 | 2 |
| Plattsburgh | | 1 |
| Port Chester | 2 | |
| Rochester | 9 | 2 |
| Rome | 2 | |
| Saratoga Springs | | 1 |
| Schenectady | | 1 |
| Syracuse | 24 | 4 |
| Troy | 6 | |
| White Plains | 2 | |
| Yonkers | | 2 |
| Ohio: | | |
| Akron | 6 | |
| Canton | | 3 |
| Cincinnati | | 7 |
| Columbus | | 5 |
| Coshocton | 1 | |
| Dayton | 1 | |
| Findlay | 1 | |
| Hamilton | | 2 |
| Kenmore | 1 | |
| Lima | | 1 |
| Tiffin | 2 | |
| Toledo | | 4 |
| Youngstown | | 2 |
| Zanesville | | 2 |
| Oklahoma: | | |
| Oklahoma | | 4 |
| Oregon: | | |
| Portland | | 2 |
| Pennsylvania: | | |
| Philadelphia | 55 | 48 |

## CITY REPORTS FOR WEEK ENDED NOVEMBER 4, 1922—Continued.

### PNEUMONIA (ALL FORMS)—Continued.

| City. | Cases. | Deaths. | City. | Cases. | Deaths. |
|---|---|---|---|---|---|
| Rhode Island: | | | Virginia—Continued. | | |
| Providence | | 7 | Richmond | | 2 |
| Tennessee: | | | Roanoke | 1 | |
| Memphis | | 9 | West Virginia: | | |
| Nashville | | 7 | Charleston | | 2 |
| Texas: | | | Huntington | | 1 |
| Abilene | 2 | 1 | Wheeling | | 2 |
| Beaumont | | 2 | Wisconsin: | | |
| Dallas | | 1 | Beloit | | 1 |
| El Paso | | 1 | Kenosha | | 1 |
| Fort Worth | | 1 | Madison | 1 | |
| Houston | | 1 | Milwaukee | 3 | |
| Utah: | | | Racine | | 2 |
| Salt Lake City | | 5 | Superior | | 1 |
| Virginia: | | | Wyoming: | | |
| Norfolk | | 1 | Cheyenne | | 1 |
| Portsmouth | | 3 | | | |

### POLIOMYELITIS (INFANTILE PARALYSIS).

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

| City. | Median for previous years. | Week ended Nov. 4, 1922. | | City. | Median for previous years. | Week ended Nov. 4, 1922. | |
|---|---|---|---|---|---|---|---|
| | | Cases. | Deaths. | | | Cases. | Deaths. |
| California: | | | | Missouri: | | | |
| Los Angeles | 0 | 1 | | St. Louis | 0 | 1 | |
| Connecticut: | | | | New York: | | | |
| Derby | | | 2 | New York | 6 | 9 | 2 |
| Fairfield | 0 | 1 | | Syracuse | 0 | 1 | |
| New Haven | 1 | 4 | | White Plains | 0 | 2 | |
| Illinois: | | | | Pennsylvania: | | | |
| Chicago | 3 | 4 | | Philadelphia | 0 | 1 | |
| Indiana: | | | | Tennessee: | | | |
| Gary | | 1 | | Memphis | 0 | 1 | |
| Massachusetts: | | | | Washington: | | | |
| Boston | 0 | 3 | | Seattle | 0 | 1 | |

### RABIES IN ANIMALS.

| City. | Cases. | City. | Cases. |
|---|---|---|---|
| California: | | Massachusetts: | |
| Los Angeles | 19 | Medford | 1 |
| Kentucky: | | Missouri: | |
| Louisville | 2 | Kansas City | 1 |

### RABIES IN MAN.

| City. | Cases. | Deaths. |
|---|---|---|
| Massachusetts: | | |
| Boston | 1 | 1 |
| Malden | | 1 |

## CITY REPORTS FOR WEEK ENDED NOVEMBER 4, 1922—Continued.

### SCARLET FEVER.

See p. 2917; also Current State summaries, p. 2906; and Monthly summaries by States, p. 2910.

### SMALLPOX.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

| City. | Median for previous years. | Week ended Nov. 4, 1922. | | City. | Median for previous years. | Week ended Nov. 4, 1922. | |
|---|---|---|---|---|---|---|---|
| | | Cases. | Deaths. | | | Cases. | Deaths. |
| California: | | | | Minnesota: | | | |
| Oakland | 0 | 5 | ..... | Duluth | 0 | 10 | ..... |
| San Francisco | 0 | 2 | ..... | St. Paul | 4 | 2 | ..... |
| Colorado: | | | | Missouri: | | | |
| Denver | 4 | 30 | 26 | Joplin | 0 | 1 | ..... |
| Connecticut: | | | | Ohio: | | | |
| Bridgeport | 0 | 1 | ..... | Cleveland Heights | ..... | 2 | ..... |
| Georgia: | | | | Oregon: | | | |
| Albany | 0 | 1 | ..... | Portland | 2 | 8 | ..... |
| Idaho: | | | | Pennsylvania: | | | |
| Boise | 3 | 1 | ..... | Johnstown | 0 | 1 | ..... |
| Indiana: | | | | West Virginia: | | | |
| Indianapolis | 1 | 1 | ..... | Clarksburg | ..... | 1 | ..... |
| Iowa: | | | | Wisconsin: | | | |
| Council Bluffs | ..... | 1 | ..... | Ashland | 0 | 2 | ..... |
| Sioux City | 2 | 1 | ..... | Milwaukee | 6 | 1 | ..... |
| | | | | Superior | 0 | 20 | ..... |

### TETANUS.

| City. | Cases. | Deaths. | City. | Cases. | Deaths. |
|---|---|---|---|---|---|
| California: | | | New York: | | |
| San Francisco | ..... | 1 | New York | ..... | 1 |
| Illinois: | | | Pennsylvania: | | |
| Quincy | ..... | 1 | Philadelphia | 2 | ..... |
| Kentucky: | | | Texas: | | |
| Louisville | 2 | ..... | Abilene | 3 | ..... |
| Maine: | | | Houston | ..... | 1 |
| Portland | 1 | ..... | | | |
| Nebraska: | | | | | |
| Omaha | 1 | 1 | | | |

### TUBERCULOSIS.

See p. 2917; also Current State summaries, p. 2906.

## CITY REPORTS FOR WEEK ENDED NOVEMBER 4, 1922—Continued.

### TYPHOID FEVER.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

| City. | Median for previous years. | Week ended Nov. 4, 1922. Cases. | Week ended Nov. 4, 1922. Deaths. |
|---|---|---|---|
| **Alabama:** | | | |
| Birmingham | 3 | 1 | ..... |
| Mobile | 1 | 1 | ..... |
| **Arkansas:** | | | |
| Hot Springs | 0 | 1 | ..... |
| North Little Rock | 0 | 2 | ..... |
| **California:** | | | |
| Los Angeles | 5 | 4 | ..... |
| Sacramento | 1 | 1 | ..... |
| San Francisco | 2 | 2 | 1 |
| **Colorado:** | | | |
| Denver | 0 | 1 | ..... |
| **Connecticut:** | | | |
| Hartford | 0 | 1 | ..... |
| New Haven | 1 | 1 | ..... |
| Norwalk | 0 | ..... | 1 |
| **District of Columbia:** | | | |
| Washington | 4 | 2 | ..... |
| **Florida:** | | | |
| Tampa | 0 | 1 | ..... |
| **Georgia:** | | | |
| Macon | 0 | 1 | ..... |
| Rome | 0 | 1 | ..... |
| Savannah | 0 | 2 | ..... |
| **Illinois:** | | | |
| Chicago | 11 | 6 | ..... |
| Mattoon | 0 | 2 | ..... |
| Springfield | 0 | 4 | ..... |
| **Indiana:** | | | |
| Anderson | 0 | 1 | ..... |
| Fort Wayne | 0 | 3 | ..... |
| Huntington | 1 | 1 | ..... |
| Kokomo | 0 | 1 | ..... |
| La Fayette | 0 | 2 | ..... |
| South Bend | 1 | 1 | ..... |
| **Iowa:** | | | |
| Muscatine | 0 | 1 | ..... |
| Waterloo | 0 | 2 | ..... |
| **Kansas:** | | | |
| Leavenworth | 0 | 1 | ..... |
| **Kentucky:** | | | |
| Lexington | 0 | 1 | ..... |
| Louisville | 2 | 6 | ..... |
| **Louisiana:** | | | |
| New Orleans | 3 | 4 | ..... |
| **Maryland:** | | | |
| Cumberland | 1 | 2 | ..... |
| **Massachusetts:** | | | |
| Boston | 3 | 1 | ..... |
| Fall River | 1 | 1 | ..... |
| Lynn | 0 | 1 | ..... |
| Pittsfield | 0 | 2 | ..... |
| Quincy | 0 | 2 | ..... |
| Southbridge | 0 | 2 | ..... |
| Worcester | 0 | 1 | ..... |
| **Michigan:** | | | |
| Ann Arbor | 0 | 1 | ..... |
| Detroit | 9 | 8 | 1 |
| Ironwood | 0 | ..... | 1 |
| Muskegon | 0 | 1 | ..... |
| **Minnesota:** | | | |
| Minneapolis | 2 | 1 | ..... |
| Rochester | 0 | 1 | ..... |
| **Missouri:** | | | |
| Joplin | 0 | 1 | ..... |
| St. Louis | 9 | 5 | 2 |
| **Montana:** | | | |
| Missoula | 0 | 1 | 1 |
| **New Jersey:** | | | |
| Paterson | 0 | 1 | ..... |
| Rahway | 0 | ..... | 1 |
| Trenton | 0 | ..... | 1 |
| **New York:** | | | |
| New York | 30 | 13 | 3 |
| Peekskill | 0 | 1 | ..... |
| Rochester | 1 | 1 | ..... |
| Watertown | 0 | ..... | 1 |
| **North Carolina:** | | | |
| Raleigh | 0 | 1 | ..... |
| **Ohio:** | | | |
| Ashtabula | 1 | 2 | ..... |
| Canton | 0 | 2 | ..... |
| Cincinnati | 0 | 2 | ..... |
| Lorain | 0 | 1 | ..... |
| Zanesville | 0 | 1 | ..... |
| **Oklahoma:** | | | |
| Oklahoma | 1 | 1 | ..... |
| Tulsa | 0 | 2 | ..... |
| **Oregon:** | | | |
| Portland | 0 | 4 | ..... |
| **Pennsylvania:** | | | |
| Allentown | 0 | 2 | ..... |
| Braddock | 0 | 2 | ..... |
| Chester | 0 | 2 | ..... |
| Coatesville | 0 | 1 | ..... |
| Easton | 0 | 1 | ..... |
| Lancaster | 0 | 1 | ..... |
| Meadville | 0 | 1 | ..... |
| Philadelphia | 12 | 7 | 1 |
| Reading | 1 | 1 | ..... |
| **Rhode Island:** | | | |
| Pawtucket | 0 | 1 | ..... |
| **South Dakota:** | | | |
| Sioux Falls | 0 | 1 | ..... |
| **Tennessee:** | | | |
| Chattanooga | 0 | 1 | ..... |
| Knoxville | 0 | 26 | ..... |
| Memphis | 1 | 3 | ..... |
| Nashville | 3 | 4 | 1 |
| **Texas:** | | | |
| Abilene | 0 | 2 | 1 |
| El Paso | 2 | 3 | ..... |
| **Utah:** | | | |
| Salt Lake City | 2 | 1 | ..... |
| **Virginia:** | | | |
| Norfolk | 0 | 1 | ..... |
| **Washington:** | | | |
| Tacoma | 0 | 1 | ..... |
| Yakima | 0 | 4 | ..... |
| **West Virginia:** | | | |
| Bluefield | 1 | ..... | 1 |
| Charleston | 0 | 2 | ..... |
| Clarksburg | ..... | ..... | 1 |
| Fairmont | 0 | 1 | ..... |
| Morgantown | 0 | 1 | ..... |
| Wheeling | 0 | ..... | 1 |
| **Wisconsin:** | | | |
| Green Bay | 0 | 1 | ..... |
| Kenosha | 0 | 1 | ..... |
| La Crosse | 0 | 1 | ..... |
| Superior | 0 | 1 | ..... |
| **Wyoming:** | | | |
| Cheyenne | 0 | 1 | ..... |

### TYPHUS FEVER.

| City. | Cases. | Deaths. |
|---|---|---|
| **Georgia:** | | |
| Atlanta | 2 | ..... |

## CITY REPORTS FOR WEEK ENDED NOVEMBER 4, 1922—Continued.

### DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

| City. | Population Jan. 1, 1920. | Total deaths from all causes. | Diphtheria. | | Measles. | | Scarlet fever. | | Tuberculosis. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. |
| Alabama: | | | | | | | | | | |
| Birmingham | 178,806 | 67 | 11 | 1 | | | 4 | 1 | 5 | 2 |
| Mobile | 60,777 | 23 | | | | | 2 | | | 3 |
| Montgomery | 43,464 | 16 | 2 | | | | | | 2 | 1 |
| Tuscaloosa | 11,996 | | 6 | | | | | | | |
| Arizona: | | | | | | | | | | |
| Tucson | 20,292 | 14 | | 1 | | | | | | 5 |
| Arkansas: | | | | | | | | | | |
| Hot Springs | 11,695 | 4 | 2 | | | | 1 | | | 1 |
| Little Rock | 65,142 | | 5 | | 1 | | 2 | | | |
| North Little Rock | 14,048 | | 1 | | | | 2 | | | |
| California: | | | | | | | | | | |
| Alameda | 28,806 | 5 | 4 | | | | 2 | | | |
| Eureka | 12,923 | 6 | | 1 | | | 5 | | 1 | 1 |
| Glendale | 13,536 | 7 | | | | | | | | |
| Long Beach | 55,593 | 7 | 2 | | | | 3 | | 1 | |
| Los Angeles | 576,673 | 186 | 119 | 6 | 2 | | 33 | | 55 | 18 |
| Oakland | 216,261 | 52 | 19 | 1 | | | 7 | | 2 | 4 |
| Pasadena | 45,354 | 14 | | | | | | 1 | | 1 |
| Richmond | 16,843 | 2 | 1 | | | | | | | |
| Riverside | 19,341 | 9 | 2 | | | | 1 | | 1 | |
| Sacramento | 65,908 | 25 | 12 | | 1 | | 17 | | | |
| San Bernardino | 18,721 | 8 | 3 | | 1 | | | | | |
| San Diego | 74,683 | 30 | 6 | | | | 8 | | 5 | 2 |
| San Francisco | 506,676 | 129 | 27 | 4 | 1 | | 7 | | 31 | 8 |
| Santa Ana | 15,485 | 9 | 3 | | | | 1 | | | 1 |
| Santa Cruz | 10,917 | 3 | | | | | | | | |
| Stockton | 40,296 | 18 | 8 | | | | 1 | | 1 | |
| Colorado: | | | | | | | | | | |
| Denver | 256,491 | 98 | 84 | 3 | 1 | | 11 | | | 9 |
| Pueblo | 43,050 | 13 | 4 | | 1 | | 4 | | 1 | 1 |
| Trinidad | 10,906 | | 1 | | | | | | | |
| Connecticut: | | | | | | | | | | |
| Bridgeport | 143,555 | 27 | 18 | | 5 | | 8 | | 6 | 3 |
| Bristol | 20,620 | 3 | | | | | | | | |
| Derby | 11,238 | 5 | | | | | | | | |
| Fairfield (town) | 11,475 | | | | 13 | | 1 | | | 1 |
| Greenwich (town) | 22,123 | | | | | | 2 | | | |
| Hartford | 138,036 | 24 | 8 | 2 | 19 | | 3 | | | 1 |
| Manchester (town) | 18,370 | 1 | | | | | 2 | | | |
| Meriden (city) | 29,867 | | 2 | | | | 2 | | | |
| Milford (town) | 10,193 | 4 | | | | | | | | |
| New Haven | 162,537 | 37 | 1 | 1 | 29 | | 7 | 1 | | |
| New London | 25,688 | 7 | 1 | | | | 1 | | | |
| Norwalk | 27,743 | 8 | | | | | | | | |
| District of Columbia: | | | | | | | | | | |
| Washington | 437,571 | 112 | 32 | 2 | 1 | | 7 | | 15 | 8 |
| Florida: | | | | | | | | | | |
| Key West | 18,749 | 7 | | | | | | | | 3 |
| Tampa | 51,608 | 14 | 8 | | | | | | | 1 |
| Georgia: | | | | | | | | | | |
| Atlanta | 200,616 | 61 | 17 | 1 | 1 | | 9 | | 7 | 7 |
| Augusta | 52,548 | 20 | 1 | | | | 2 | | | 1 |
| Brunswick | 14,413 | 6 | | | | | | | 1 | |
| Macon | 52,995 | | 3 | | | | | | 1 | |
| Rome | 13,252 | | 4 | | | | 1 | | | |
| Savannah | 83,252 | 24 | 3 | | | | 1 | | 1 | 5 |
| Idaho: | | | | | | | | | | |
| Boise | 21,393 | 1 | | | | | | | | |
| Pocatello | 15,001 | 3 | | | | | | | | |
| Illinois: | | | | | | | | | | |
| Alton | 24,682 | 4 | 5 | | | | 4 | | | |
| Aurora | 36,397 | 8 | 17 | | | | 3 | | 2 | |
| Bloomington | 28,725 | 3 | | | | | 6 | | 1 | |
| Blue Island | 11,484 | 2 | | | | | | | | |
| Centralia | 12,491 | 2 | 1 | | | | | | | |
| Chicago | 2,701,705 | 551 | 217 | 12 | 62 | 1 | 78 | | 226 | 38 |
| Chicago Heights | 19,653 | 4 | | | | | | | | |
| Cicero | 44,995 | 4 | 1 | | | | 4 | | | |
| East St. Louis | 66,767 | 10 | 4 | | | | 3 | | | 1 |
| Elgin | 27,454 | 9 | 1 | | | | | | | |
| Evanston | 37,234 | 11 | 1 | | | | 6 | | | |
| Forest Park | 10,768 | | 1 | | 1 | | 1 | | | |
| Freeport | 19,669 | 8 | 5 | 1 | | | | | | |

## CITY REPORTS FOR WEEK ENDED NOVEMBER 4, 1922—Continued.

### DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

| City. | Population Jan. 1, 1920. | Total deaths from all causes. | Diphtheria. | | Measles. | | Scarlet fever. | | Tuberculosis. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. |
| **Illinois—Continued.** | | | | | | | | | | |
| Galesburg | 23,834 | 7 | | | | | 1 | | 1 | 1 |
| Kewanee | 16,026 | 4 | | | | | 1 | | | |
| La Salle | 13,050 | 3 | 3 | | | | 1 | | | |
| Mattoon | 13,552 | 4 | 4 | | | | 1 | | | |
| Oak Park | 39,858 | 8 | 6 | | | | | | | 1 |
| Pekin | 12,086 | 3 | 1 | | | | | | | |
| Peoria | 76,121 | 14 | 1 | | | | 17 | | | |
| Quincy | 35,978 | 9 | | | | | | | | 1 |
| Springfield | 59,183 | 20 | 8 | | | | 6 | | 7 | 2 |
| **Indiana:** | | | | | | | | | | |
| Anderson | 29,767 | 8 | 3 | | | | | | | |
| Bloomington | 11,595 | 0 | 1 | | | | 1 | | | |
| Clinton | 10,962 | 4 | 2 | | | | | | | |
| Crawfordsville | 10,139 | 1 | 1 | | | | | | | |
| East Chicago | 35,967 | 8 | 2 | | | | | | | |
| Fort Wayne | 86,549 | 17 | 5 | 1 | | | 1 | | | 2 |
| Frankfort | 11,585 | 2 | 8 | 1 | | | 3 | | | |
| Gary | 55,378 | 11 | 2 | | | | 6 | | | 2 |
| Hammond | 35,004 | 8 | 2 | 1 | | | 1 | | | |
| Huntington | 14,000 | 3 | 3 | | | | | | | |
| Indianapolis | 314,194 | 86 | 66 | 3 | 4 | | 21 | | 6 | 2 |
| Kokomo | 30,067 | 4 | | | | | 2 | | 1 | |
| La Fayette | 22,486 | 6 | 2 | | | | 1 | | | |
| Logansport | 21,626 | 3 | | | | | | | | |
| Mishawaka | 15,195 | 1 | 2 | | | | 9 | | 1 | |
| Muncie | 35,524 | 5 | 4 | | | | | | | 1 |
| Newcastle | 14,458 | 5 | | | | | | | | |
| South Bend | 70,983 | 15 | 4 | | 18 | | 7 | | 1 | |
| Terre Haute | 66,083 | 20 | 12 | | | | 1 | | | 2 |
| **Iowa:** | | | | | | | | | | |
| Burlington | 24,057 | 11 | 8 | | | | 1 | | | |
| Cedar Rapids | 45,566 | | 2 | | | | 3 | | | |
| Council Bluffs | 35,162 | 5 | 5 | 1 | | | 6 | | | |
| Davenport | 56,727 | | 21 | | | | 1 | | | |
| Des Moines | 126,468 | | 23 | 1 | | | 23 | | | |
| Dubuque | 39,141 | | 2 | | | | 2 | | | |
| Mason City | 20,065 | 11 | 12 | | | | 1 | | | 1 |
| Muscatine | 16,068 | 5 | 2 | | | | 2 | | | |
| Ottumwa | 23,003 | 2 | 4 | 2 | | | 2 | | | |
| Sioux City | 71,227 | | 6 | | | | 5 | | | |
| Waterloo | 36,230 | | 1 | | | | 15 | | | |
| **Kansas:** | | | | | | | | | | |
| Atchison | 12,630 | | 4 | | | | | | | |
| Coffeyville | 13,452 | 3 | | | | | | | 1 | |
| Fort Scott | 10,693 | 1 | 7 | | | | 1 | | | |
| Hutchinson | 23,298 | | 4 | | | | | | | |
| Kansas City | 101,177 | | 12 | | 13 | | 3 | | 8 | |
| Lawrence | 12,456 | 3 | 1 | | | | 1 | | | |
| Leavenworth | 16,912 | | 1 | | | | | | | |
| Parsons | 16,028 | 6 | 5 | | | | | | | |
| Salina | 15,085 | 3 | 1 | | | | 1 | | | |
| Topeka | 50,022 | 6 | 14 | | | | 2 | | 2 | |
| Wichita | 72,217 | 26 | 12 | | | | 10 | | | |
| **Kentucky:** | | | | | | | | | | |
| Lexington | 41,534 | 21 | 9 | 1 | 2 | | 6 | | | 2 |
| Louisville | 234,891 | 75 | 26 | 1 | | | 5 | | 10 | 9 |
| Owensboro | 17,424 | | 2 | | | | | | | |
| Paducah | 24,735 | | 1 | | 1 | | 1 | | | |
| **Louisiana:** | | | | | | | | | | |
| Baton Rouge | 21,782 | 5 | 1 | | | | | | | |
| New Orleans | 387,219 | 148 | 10 | | | | 4 | | 15 | 17 |
| **Maine:** | | | | | | | | | | |
| Auburn | 16,985 | 5 | | | | | 2 | | | |
| Bangor | 25,978 | | 2 | | 1 | | | | | |
| Bath | 14,731 | 3 | | | | | | | | |
| Biddeford | 18,008 | 7 | | | | | | | | 1 |
| Lewiston | 31,791 | 11 | | | 2 | | 3 | | | |
| Portland | 69,272 | 14 | 5 | | 1 | | 1 | | | 1 |
| Sanford (town) | 10,691 | 3 | | | | | | | | |
| Waterville | 13,351 | | 1 | | | | | | | |

## CITY REPORTS FOR WEEK ENDED NOVEMBER 4, 1922—Continued.

### DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

| City. | Population Jan. 1, 1920. | Total deaths from all causes. | Diphtheria. | | Measles. | | Scarlet fever. | | Tuberculosis. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. |
| Maryland: | | | | | | | | | | |
| Cumberland | 29,837 | 7 | 1 | | | | | | 1 | |
| Massachusetts: | | | | | | | | | | |
| Adams (town) | 12,967 | 0 | 2 | | | | 1 | | | |
| Amesbury (town) | 10,036 | 2 | | | | | 1 | | | |
| Arlington (town) | 18,665 | 2 | 6 | | | | | | 1 | 1 |
| Attleboro | 19,731 | 6 | | | 4 | | 1 | | | |
| Belmont (town) | 10,749 | 4 | | | | | 1 | | | |
| Beverly | 22,561 | 0 | 1 | | | | | | | |
| Boston | 748,060 | 222 | 68 | 4 | 71 | | 27 | | 39 | 14 |
| Braintree (town) | 10,580 | 2 | | | 1 | | 3 | | | 1 |
| Brookline | 37,748 | 9 | 2 | | 1 | | 1 | | | |
| Cambridge | 109,694 | 37 | | | | | | | 4 | 4 |
| Chelsea | 43,184 | 15 | 5 | | 14 | | | | | |
| Chicopee | 36,214 | 6 | 2 | | | | 1 | | | |
| Clinton | 12,979 | 5 | | | | | 1 | | 1 | |
| Danvers | 11,108 | | 2 | 1 | | | | | | |
| Dedham | 10,792 | 1 | | | | | | | | |
| Easthampton | 11,261 | 1 | 2 | | | | | | | |
| Everett | 40,120 | 4 | 2 | | 2 | | | | 2 | |
| Fall River | 120,485 | 27 | 17 | | 87 | 2 | 3 | | 3 | 2 |
| Fitchburg | 41,029 | 6 | 3 | | | | 9 | | | |
| Framingham | 17,033 | 4 | | | | | | | | |
| Gardner | 16,971 | 3 | 1 | | | | 2 | | 1 | 1 |
| Greenfield | 15,462 | 5 | 1 | | | | | | | 1 |
| Haverhill | 53,884 | 7 | 4 | | | | | | 2 | |
| Holyoke | 60,203 | 13 | 11 | | | | 1 | | 2 | 1 |
| Lawrence | 94,270 | 19 | 3 | | 1 | | 1 | | 1 | 1 |
| Leominster | 19,744 | 5 | | | 1 | | | | 1 | |
| Lowell | 112,759 | 33 | 11 | 2 | | | 3 | | 1 | 2 |
| Lynn | 99,148 | 17 | 8 | | 4 | | 4 | | 5 | 1 |
| Malden | 49,103 | 15 | 4 | | | | 1 | | 3 | 1 |
| Medford | 39,038 | 3 | 3 | | | | 1 | | | |
| Melrose | 18,204 | 4 | | | | | 3 | | 3 | |
| Methuen | 15,189 | 9 | | | | | | | | |
| New Bedford | 121,217 | 27 | 4 | | 5 | | | | 5 | 2 |
| Newburyport | 15,618 | 6 | | | | | 2 | | | |
| Newton | 46,054 | 15 | 2 | | | | 6 | | | |
| North Adams | 22,282 | 9 | | | | | | | | 1 |
| Northampton | 21,951 | 7 | | | | | 3 | | | |
| Peabody | 19,552 | 7 | 14 | 1 | | | | | | |
| Pittsfield | 41,763 | 11 | | | | | 4 | | | |
| Plymouth | 13,045 | 3 | | | | | | | | |
| Quincy | 47,876 | 7 | 2 | | 2 | | 4 | | | |
| Somerville | 93,091 | 24 | 5 | | | | 4 | | 2 | 1 |
| Southbridge | 14,245 | 5 | 2 | | | | | | | 1 |
| Springfield | 129,614 | 35 | 8 | 1 | | | 3 | | 2 | |
| Taunton | 37,137 | 11 | 1 | | 5 | | | | 1 | 2 |
| Wakefield | 13,025 | 3 | | | | | | | | 1 |
| Waltham | 30,915 | 3 | 8 | | | | | | 3 | |
| Watertown | 21,457 | 4 | 5 | | | | | | | |
| Webster | 13,258 | 2 | | | | | | | | |
| West Springfield | 13,443 | 4 | | | | | | | | |
| Westfield | 18,604 | 8 | 2 | | | | | | 3 | 1 |
| Winthrop | 15,455 | 4 | | | | | | | 2 | |
| Woburn | 16,574 | 3 | | 1 | | | | | | 1 |
| Worcester | 179,754 | 49 | 4 | | | | 12 | 1 | 3 | 3 |
| Michigan: | | | | | | | | | | |
| Alpena | 11,101 | | 1 | | | | 2 | | | |
| Ann Arbor | 19,516 | 14 | | | | | | | | |
| Battle Creek | 36,164 | | 8 | | 1 | | 2 | | | |
| Benton Harbor | 12,233 | 7 | | | | | 1 | | 1 | |
| Detroit | 993,678 | 206 | 76 | 1 | 2 | | 79 | 2 | 53 | 21 |
| Grand Rapids | 137,634 | 35 | 20 | 2 | | | 12 | | 3 | |
| Holland | 12,183 | | 1 | | | | 1 | | | |
| Ironwood | 15,739 | 2 | 1 | | | | 6 | | | |
| Kalamazoo | 48,487 | 31 | 40 | 2 | | | 6 | | 1 | |
| Marquette | 12,718 | 1 | | | | | 1 | | | |
| Muskegon | 36,570 | 6 | 1 | | | | | | | |
| Pontiac | 34,273 | 5 | 5 | | | | 4 | | | |
| Port Huron | 25,944 | 7 | 5 | | | | | | | |
| Saginaw | 61,903 | 9 | 1 | | | | 8 | | 3 | |
| Sault Ste. Marie | 12,096 | 3 | 2 | | | | 1 | | | |

## CITY REPORTS FOR WEEK ENDED NOVEMBER 4, 1922—Continued.

### DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

| City. | Population Jan. 1, 1920. | Total deaths from all causes. | Diphtheria. | | Measles. | | Scarlet fever. | | Tuberculosis. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. |
| Minnesota: | | | | | | | | | | |
| Duluth | 98,917 | 26 | 3 | | | | 5 | | | 2 |
| Faribault | 11,089 | 3 | | | | | 3 | | | |
| Hibbing | 15,089 | 5 | | | | | 4 | | | 1 |
| Minneapolis | 380,582 | 89 | 56 | 1 | 1 | | 43 | 1 | 31 | 2 |
| Rochester | 13,722 | 15 | 3 | | | | | | 1 | |
| St. Cloud | 15,873 | | 6 | | | | 3 | | | |
| St. Paul | 234,698 | 54 | 25 | | 2 | | 57 | 2 | 10 | 3 |
| Winona | 19,143 | | | | | | 1 | | | |
| Missouri: | | | | | | | | | | |
| Independence | 11,686 | 8 | | 1 | | | | | | |
| Joplin | 29,902 | | | | | | 1 | | | |
| Kansas City | 324,410 | 102 | 29 | 1 | 2 | | 7 | | 9 | 9 |
| St. Joseph | 77,939 | 27 | 7 | | | | 5 | 1 | | 1 |
| St. Louis | 772,897 | 210 | 48 | 2 | 2 | | 34 | 1 | 33 | 15 |
| Springfield | 39,631 | 10 | | | | | | | | 2 |
| Montana: | | | | | | | | | | |
| Anaconda | 11,668 | 1 | | | | | | | | |
| Billings | 15,100 | 1 | | | | | 1 | | | |
| Butte | 41,611 | 14 | 2 | | | | 1 | | | 1 |
| Great Falls | 24,121 | 8 | 1 | | | | | | 1 | |
| Missoula | 12,668 | 3 | | | | | 1 | | 1 | |
| Nebraska: | | | | | | | | | | |
| Lincoln | 54,948 | | 6 | | | | 1 | | 1 | |
| Omaha | 191,601 | 59 | 30 | 2 | | | 6 | | | 5 |
| Nevada: | | | | | | | | | | |
| Reno | 12,016 | 4 | | | | | | | | |
| New Hampshire: | | | | | | | | | | |
| Berlin | 16,104 | 4 | 1 | 1 | | | | | | |
| Concord | 22,167 | 6 | | | | | | | | 2 |
| Dover | 13,029 | 4 | | | | | | | | |
| Keene | 11,210 | 2 | 3 | | | | 1 | | 4 | |
| Nashua | 28,379 | 14 | 2 | | 2 | | 2 | | | 1 |
| New Jersey: | | | | | | | | | | |
| Asbury Park | 12,400 | 1 | | | | | 1 | | | |
| Atlantic City | 50,707 | 9 | | | 8 | | 3 | | 1 | |
| Bayonne | 76,754 | | 1 | | | | 3 | | 1 | |
| Bloomfield | 22,019 | 2 | | | | | 3 | | 1 | |
| Clifton | 26,470 | | 4 | | | | 5 | | 1 | |
| East Orange | 50,710 | 5 | 2 | | 2 | | | | | |
| Englewood | 11,627 | 1 | | | 2 | | | | | |
| Garfield | 19,381 | 2 | 2 | | 4 | | | | | |
| Hackensack | 17,667 | 4 | 3 | | | | 2 | | 1 | |
| Harrison | 15,721 | | 4 | | | | 1 | | 1 | |
| Hoboken | 68,166 | 19 | 6 | | | | 1 | | 1 | |
| Jersey City | 298,103 | | 21 | | | | | | 11 | |
| Kearny | 26,724 | 7 | 4 | | 1 | | 2 | | 1 | |
| Montclair | 28,810 | 4 | 3 | | | | 1 | | 1 | |
| Morristown | 12,548 | 5 | | | 2 | | 1 | | | |
| Orange | 33,268 | 6 | | | | | 4 | | 1 | |
| Passaic | 63,841 | 10 | 8 | | 4 | | 5 | | 3 | |
| Paterson | 135,875 | | 7 | | | | | | 4 | |
| Perth Amboy | 41,707 | 12 | 8 | 1 | | | | | | 1 |
| Phillipsburg | 16,923 | 1 | | | | | | | | |
| Plainfield | 27,700 | 6 | 2 | | | | 2 | | 1 | |
| Rahway | 11,042 | 4 | | | | | | | | |
| Summit | 10,174 | 6 | | | | | 1 | | 1 | |
| Trenton | 119,289 | 31 | 41 | 5 | 2 | | 9 | | 3 | 1 |
| Union (town) | 20,651 | | | | | | 2 | | | |
| West Hoboken | 40,074 | 7 | 1 | | | | | | | |
| West New York | 29,926 | 3 | 2 | | | | | | | |
| West Orange | 15,573 | 6 | | | 20 | | | | 1 | |
| New Mexico: | | | | | | | | | | |
| Albuquerque | 15,157 | 12 | 4 | 1 | | | 2 | | 2 | 8 |
| New York: | | | | | | | | | | |
| Auburn | 36,192 | 15 | 5 | 1 | | | 1 | | | 2 |
| Geneva | 14,648 | 2 | | | | | | | | |
| Glens Falls | 16,638 | 8 | 1 | 1 | | | | | 2 | |
| Hornell | 15,025 | 1 | 1 | | | | | | | |
| Hudson | 11,745 | 3 | 2 | | | | | | | |
| Ithaca | 17,004 | 3 | 1 | | | | 3 | | | |
| Lackawanna | 17,918 | 3 | | | | | 4 | | 1 | |
| Lockport | 21,308 | 4 | | | 1 | | 1 | | | |

## CITY REPORTS FOR WEEK ENDED NOVEMBER 4, 1922—Continued.

### DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

| City. | Population Jan. 1, 1920. | Total deaths from all causes. | Diphtheria. | | Measles. | | Scarlet fever. | | Tuberculosis. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. |
| New York—Continued. | | | | | | | | | | |
| New York | 5,620,048 | 1,161 | 174 | 15 | 34 | 2 | 80 | 2 | [1] 225 | [1] 80 |
| Newburgh | 30,366 | 6 | 1 | | | | | | | |
| Niagara Falls | 50,760 | 10 | 4 | | | | 2 | | 1 | |
| North Tonawanda | 15,482 | 6 | 3 | | | | 17 | | | |
| Peekskill | 15,868 | 1 | | | | | 3 | | | 1 |
| Plattsburg | 10,909 | 6 | | | | | | | | |
| Port Chester | 16,573 | 8 | 1 | | | | 1 | | | |
| Rochester | 295,750 | 65 | 10 | 1 | 18 | | 4 | | 18 | 5 |
| Rome | 26,341 | 8 | 7 | | | | 11 | | | |
| Saratoga Springs | 13,181 | 7 | | | | | 2 | | 8 | |
| Schenectady | 88,723 | 9 | 6 | | | | 20 | | 1 | |
| Syracuse | 171,717 | 34 | 13 | | | | 13 | | 9 | |
| Troy | 72,013 | | 1 | | | | 7 | | 5 | |
| Watertown | 31,285 | 5 | | | | | 3 | | 2 | 1 |
| White Plains | 21,031 | 3 | | | | | 3 | | | |
| Yonkers | 100,176 | 24 | 5 | 1 | | | 7 | | | 3 |
| North Carolina: | | | | | | | | | | |
| Durham | 21,719 | 4 | 7 | 1 | 1 | | | | 4 | 1 |
| Greensboro | 15,861 | 10 | | | | | | | | |
| Raleigh | 24,418 | 10 | 2 | | 2 | | 4 | | 1 | |
| Rocky Mount | 12,742 | 7 | | | | | | | | 1 |
| Salisbury | 13,884 | 8 | | | | | | | | |
| Winston-Salem | 48,395 | 15 | 3 | | | | 2 | | 4 | 2 |
| North Dakota: | | | | | | | | | | |
| Fargo | 21,961 | 0 | 1 | | | | 2 | | | |
| Grand Forks | 14,010 | | | | | | 9 | | | |
| Ohio: | | | | | | | | | | |
| Akron | 208,435 | 42 | 16 | | | | 10 | | 2 | |
| Ashtabula | 22,082 | 2 | 1 | | | | | | 1 | |
| Barberton | 18,811 | 1 | | | | | 1 | | 1 | |
| Bucyrus | 10,425 | 3 | | | | | 3 | | | |
| Cambridge | 13,104 | 3 | | | | | | | | |
| Canton | 87,091 | 21 | 2 | | 1 | | 3 | | | 2 |
| Chillicothe | 15,831 | 2 | 1 | | | | | | | |
| Cincinnati | 401,247 | 111 | 33 | 3 | 2 | | 9 | | 11 | 9 |
| Cleveland Heights | 15,236 | 9 | | | 1 | | 4 | | | |
| Columbus | 237,031 | 65 | 24 | 1 | 6 | | | | 3 | 3 |
| Coshocton | 10,847 | | | | | | 1 | | | |
| Dayton | 152,559 | 43 | 17 | | | | 13 | | 2 | |
| East Cleveland | 27,292 | 1 | | | | | 2 | | | |
| East Youngstown | 11,237 | 3 | | | | | | | | |
| Findlay | 17,021 | 6 | 1 | | | | | | | |
| Hamilton | 39,675 | 8 | | | 2 | | | | | |
| Kenmore | 12,683 | | | | | | 2 | | | |
| Lima | 41,326 | 12 | 1 | | | | 2 | | | |
| Lorain | 37,295 | | | | | | 1 | | | |
| Mansfield | 27,824 | 9 | 2 | | | | 2 | | 1 | 1 |
| Martins Ferry | 11,634 | 2 | 1 | | | | 2 | | | |
| Middletown | 23,594 | 4 | | | | | | | | |
| New Philadelphia | 10,718 | | 2 | | | | 2 | | | |
| Newark | 26,718 | 6 | 2 | | | | | | | |
| Niles | 13,080 | 1 | 1 | | | | | | 2 | |
| Norwood | 24,966 | 2 | | | | | | | | |
| Piqua | 15,044 | 3 | 1 | | | | | | 1 | |
| Salem | 10,305 | 4 | 1 | | | | 3 | | | |
| Sandusky | 22,897 | 12 | | | | | 1 | | | 1 |
| Springfield | 60,840 | 14 | 5 | | | | 3 | | 2 | 1 |
| Tiffin | 14,375 | 5 | 2 | | 2 | | | | | |
| Toledo | 243,164 | 63 | 61 | 3 | 88 | 4 | 9 | | 3 | 3 |
| Youngstown | 132,358 | 26 | 65 | 2 | | | 11 | | 3 | 1 |
| Zanesville | 29,569 | 14 | 2 | 1 | 20 | | | | 2 | 1 |
| Oklahoma: | | | | | | | | | | |
| Oklahoma | 91,295 | 13 | 3 | | | | 7 | | 1 | 1 |
| Tulsa | 72,075 | | 10 | | | | 10 | 1 | | |
| Oregon: | | | | | | | | | | |
| Portland | 258,288 | 66 | 4 | 1 | | | 6 | | 4 | 3 |
| Pennsylvania: | | | | | | | | | | |
| Allentown | 73,502 | | 12 | | 11 | | | | | |
| Altoona | 60,331 | | 11 | | | | 1 | | | |
| Ambridge | 12,730 | | 3 | | 3 | | 3 | | | |
| Beaver Falls | 12,802 | | 2 | | 5 | | 1 | | | |

[1] Pulmonary tuberculosis only.

## CITY REPORTS FOR WEEK ENDED NOVEMBER 4, 1922—Continued.

### DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

| City. | Population Jan. 1, 1920. | Total deaths from all causes. | Diphtheria. | | Measles. | | Scarlet fever. | | Tuberculosis. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. |
| Pennsylvania—Continued. | | | | | | | | | | |
| Berwick | 12,181 | | 7 | | | | 4 | | | |
| Bethlehem | 50,358 | | 7 | | 1 | | 4 | | | |
| Braddock | 20,879 | | 3 | | 45 | | | | 2 | |
| Bristol | 10,273 | | 3 | | | | 1 | | | |
| Butler | 23,778 | | 7 | | | | 2 | | | |
| Canonsburg | 10,632 | | 4 | | 6 | | | | 1 | |
| Carbondale | 18,640 | | 4 | | | | 1 | | | |
| Carnegie | 11,516 | | 1 | | 1 | | 4 | | 2 | |
| Carrick | 10,504 | | | | 35 | | 2 | | | |
| Chambersburg | 13,171 | | | | | | 4 | | | |
| Charleroi | 11,516 | | 2 | | | | 2 | | | |
| Chester | 58,030 | | 1 | | 9 | | 3 | | 6 | |
| Coatesville | 14,515 | | | | 47 | | | | | |
| Connellsville | 13,804 | | 3 | | | | 1 | | | |
| Dickson | 11,049 | | 1 | | 1 | | | | | |
| Donora | 14,131 | | 1 | | | | | | | |
| Dubois | 13,681 | | 2 | | | | | | | |
| Easton | 33,813 | | 2 | | | | | | | |
| Erie | 93,372 | | 7 | | 3 | | 5 | | 7 | |
| Farrell | 15,586 | | | | | | 4 | | | |
| Harrisburg | 75,917 | | 5 | | 1 | | 10 | | | |
| Homestead | 20,452 | | 1 | | 1 | | | | 1 | |
| Johnstown | 67,327 | | 5 | | 3 | | 3 | | 1 | |
| Lancaster | 53,150 | | 1 | | | | 5 | | 1 | |
| McKees Rocks | 16,713 | | 7 | | | | | | | |
| McKeesport | 46,781 | | 6 | | | | 2 | | 3 | |
| Mahanoy City | 15,599 | | 1 | | | | | | | |
| Monessen | 18,179 | | 4 | | | | | | | |
| Nanticoke | 22,614 | | 1 | | | | | | | |
| New Castle | 44,938 | | 3 | | | | 2 | | | |
| New Kensington | 11,987 | | 2 | | | | | | | |
| Norristown | 32,319 | | 1 | | 3 | | 4 | | 1 | |
| North Braddock | 14,928 | | 1 | | 8 | | | | | |
| Oil City | 21,274 | | | | | | 10 | | | |
| Olyphant | 10,236 | | | | | | | | 1 | |
| Philadelphia | 1,823,779 | 495 | 73 | 8 | 818 | 13 | 50 | | 68 | 37 |
| Pittsburgh | 588,343 | | 38 | | 71 | | 52 | | 6 | |
| Pittston | 18,497 | | | | | | 1 | | | |
| Plymouth | 16,500 | | 1 | | | | | | | |
| Pottstown | 17,431 | | 1 | | | | | | | |
| Punxsutawney | 10,311 | | 1 | | | | | | | |
| Reading | 107,784 | | 4 | | 27 | | | | | |
| Scranton | 137,783 | | 4 | | | | 2 | | 2 | |
| Sharon | 21,747 | | 1 | | 1 | | | | | |
| Shenandoah | 24,726 | | 2 | | | | 2 | | | |
| Steelton | 13,428 | | 5 | | | | 1 | | | |
| Sunbury | 15,721 | | 1 | | | | 4 | | | |
| Swissvale | 10,908 | | | | | | 4 | | | |
| Uniontown | 15,692 | | 1 | | | | 3 | | | |
| Washington | 21,480 | | 8 | | 2 | | 8 | | | |
| Wilkes-Barre | 73,833 | | 2 | | | | 4 | | | |
| Wilkinsburg | 24,403 | | | | | | 1 | | | |
| Williamsport | 36,198 | | 3 | | | | | | | |
| Woodlawn | 12,495 | | 3 | | 28 | | | | | |
| York | 47,512 | | 2 | | | | 7 | | | |
| Rhode Island: | | | | | | | | | | |
| Cranston | 29,407 | 4 | | | | | 1 | | | |
| Newport | 30,255 | 1 | 2 | | | | 1 | | | |
| Pawtucket | 64,248 | 12 | 1 | | | | | | | |
| Providence | 237,595 | 68 | 12 | | 5 | | 1 | | | 3 |
| South Carolina: | | | | | | | | | | |
| Charleston | 67,957 | 23 | 1 | | | | 1 | | | 1 |
| Columbia | 37,524 | | 1 | | | | | | | |
| Greenville | 23,127 | 16 | 5 | 1 | | | 4 | | | |
| South Dakota: | | | | | | | | | | |
| Sioux Falls | 25,202 | 8 | 4 | | 1 | | | | | |
| Tennessee: | | | | | | | | | | |
| Chattanooga | 57,895 | | 2 | | | | 5 | | 2 | |
| Knoxville | 77,818 | | 4 | | | | 3 | | 2 | 2 |
| Memphis | 162,351 | 63 | 16 | | | | 10 | | 13 | 2 |
| Nashville | 118,342 | 43 | 8 | 1 | | | 5 | | | 5 |
| Texas: | | | | | | | | | | |
| Abilene | 10,274 | 7 | | | | | 3 | | 8 | 1 |
| Beaumont | 40,422 | 14 | 5 | | | | | | | 1 |

## CITY REPORTS FOR WEEK ENDED NOVEMBER 4, 1922—Continued.

### DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

| City. | Population Jan. 1, 1920. | Total deaths from all causes. | Diphtheria. | | Measles. | | Scarlet fever. | | Tuberculosis. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. | Cases. | Deaths. |
| **Texas—Continued.** | | | | | | | | | | |
| Dallas | 158,976 | 38 | 18 | | | | 2 | | 2 | 3 |
| El Paso | 77,560 | 27 | 2 | | | | | | 31 | 5 |
| Fort Worth | 106,482 | 17 | 12 | 1 | | | 2 | | | |
| Galveston | 44,255 | 13 | | | | | | | | 4 |
| Houston | 138,276 | 40 | 2 | | | | 1 | | | 5 |
| San Angelo | 10,050 | 13 | | | | | | | | 3 |
| Waco | 38,500 | 9 | 2 | | | | 2 | | | 2 |
| **Utah:** | | | | | | | | | | |
| Salt Lake City | 118,110 | 26 | 2 | 1 | 1 | | 1 | | 2 | 1 |
| **Vermont:** | | | | | | | | | | |
| Burlington | 22,779 | 2 | | | | | | | | |
| Rutland | 14,954 | 8 | | | | | | | | |
| **Virginia:** | | | | | | | | | | |
| Alexandria | 18,060 | 9 | 1 | 1 | | | | | | |
| Danville | 21,539 | 7 | 4 | | | | 4 | | 1 | |
| Lynchburg | 30,070 | 14 | 8 | | | | | | 3 | 1 |
| Norfolk | 115,777 | | 5 | | | | 3 | | 3 | 3 |
| Petersburg | 31,012 | 7 | 5 | | | | 6 | | 2 | 2 |
| Portsmouth | 54,387 | 15 | 11 | | | | 1 | | | 1 |
| Richmond | 171,667 | 51 | 28 | 2 | | | 19 | | 17 | 3 |
| Roanoke | 50,842 | 16 | 13 | 2 | | | 4 | | 1 | |
| **Washington:** | | | | | | | | | | |
| Bellingham | 25,585 | | | | | | 3 | | | |
| Seattle | 315,312 | | 5 | | 3 | | 14 | | 8 | |
| Spokane | 104,437 | | 14 | | 1 | | 8 | | | |
| Tacoma | 96,965 | | 6 | | | | | | 13 | |
| Walla Walla | 15,503 | | | | | | 3 | | | |
| Yakima | 18,539 | | | | | | 8 | | | |
| **West Virginia:** | | | | | | | | | | |
| Bluefield | 15,282 | 4 | 3 | | | | | | | |
| Charleston | 39,608 | 12 | 4 | | | | | | 2 | |
| Clarksburg | 27,869 | 6 | 3 | | | | 1 | | | |
| Fairmont | 17,851 | | 3 | | | | 2 | | | |
| Huntington | 50,177 | 16 | 16 | | | | 3 | | | 1 |
| Morgantown | 12,127 | | | 1 | | | 2 | | | |
| Moundsville | 10,669 | 4 | 5 | | | | | | | |
| Parkersburg | 20,050 | 6 | 3 | 1 | | | 8 | | | |
| Wheeling | 56,208 | 10 | 3 | | 7 | | 5 | | 3 | 1 |
| **Wisconsin:** | | | | | | | | | | |
| Appleton | 19,561 | | 1 | | | | | | | |
| Ashland | 11,334 | | 1 | | | | | | | |
| Beloit | 21,284 | 5 | 1 | | 1 | | 30 | 1 | | |
| Eau Claire | 20,906 | | 2 | | | | | | | |
| Fond du Lac | 23,427 | 5 | | | | | | | | |
| Green Bay | 31,017 | | 6 | | | | | | 4 | |
| Janesville | 18,293 | 3 | 1 | | | | 1 | | 1 | |
| Kenosha | 40,472 | 8 | 2 | | | | | | 8 | |
| La Crosse | 30,421 | | 1 | | 5 | | 5 | | | |
| Madison | 38,378 | | 6 | | | | | | 4 | |
| Marinette | 13,610 | | 1 | | | | 2 | | | |
| Milwaukee | 457,147 | | 35 | | 324 | | 45 | | 10 | |
| Oshkosh | 33,162 | 7 | | | | | 1 | | 1 | |
| Racine | 58,593 | 10 | 12 | | 2 | | 9 | | 2 | |
| Sheboygan | 30,955 | | 6 | | | | 1 | | 1 | |
| Stevens Point | 11,371 | | | | | | | | 1 | |
| Superior | 39,671 | 7 | 1 | | | | | | | 1 |
| Wausau | 18,661 | | 3 | | | | | | | |
| West Allis | 13,745 | | 2 | | 25 | | 1 | | | |
| **Wyoming:** | | | | | | | | | | |
| Cheyenne | 13,829 | 6 | | | 1 | | | | | |

# FOREIGN AND INSULAR.

## CANADA.

### Communicable Diseases—Winnipeg—October, 1922.

Communicable diseases were reported in Winnipeg, Manitoba, Canada, during the month of October, 1922, as follows: Chicken pox, 68 cases; diphtheria, 176 cases and 134 diphtheria carriers; scarlet fever, 146 cases; smallpox, 5 cases; typhoid fever, 4 cases, as compared with 18 cases in September, 1922. The total number of cases of contagious diseases reported during the month of October, 1922, was 602, with 17 deaths, as compared with 373 cases with 9 deaths in September, 1922.

## CUBA.

### Communicable Diseases—Habana.

Communicable diseases have been notified at Habana as follows:

| Disease. | Oct. 21-31, 1922. | | Remaining under treatment Oct. 31, 1922. |
|---|---|---|---|
| | New cases. | Deaths. | |
| Chicken pox | 7 | ..... | 5 |
| Diphtheria | 9 | 2 | 2 |
| Leprosy | 1 | 1 | 10 |
| Malaria | 77 | 4 | [1] 56 |
| Measles | 1 | ..... | ..... |
| Paratyphoid fever | 6 | 1 | 4 |
| Scarlet fever | 5 | ..... | 4 |
| Typhoid fever | 148 | 26 | [2] 128 |

[1] From the interior 31, from abroad 1. [2] From the interior 15.

## ITALY.

### Plague—Naples.

Two cases of plague, occurring between September 22 and 28, 1922, have been reported at Torre Annunziata, a suburb of Naples, Italy.

## RUSSIA.

### Communicable Diseases—Esthonia—September, 1922.

Communicable diseases were reported in the Province of Esthonia, Russia, during the month of September, 1922, as follows:

| Disease. | Cases. | Remarks. |
|---|---|---|
| Diphtheria | 30 | |
| Measles | 28 | |
| Scarlet fever | 38 | |
| Smallpox | 1 | |
| Tuberculosis | 113 | |
| Typhoid fever | 78 | |
| Typhus fever | 1 | |
| Typhus fever, recurrent | 6 | Paratyphus fever, 11. |

## UNION OF SOUTH AFRICA.

### Smallpox—Typhus Fever—August, 1922.

During the month of August, 1922, 64 cases of smallpox, of which 61 occurred in the colored population, and 481 cases of typhus fever with 84 deaths, of which 479 cases and the total number of reported deaths occurred in the colored population, were notified in the Union of South Africa. For distribution of cases according to States see table, pages 2926 and 2927.

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## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.

### Reports Received During Week Ended November 24, 1922.[1]

The reports contained in the following tables must not be considered as complete or final, either as regards the list of countries included or the figures for the particular countries for which reports are given.

#### CHOLERA.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| China: | | | | |
| Antung | Oct. 9-15 | | | Present in Chinese city. |
| Shanghai | Oct. 2-8 | 1 | 1 | Case, foreign; death, Chinese. |
| India | | | | Sept. 3-9, 1922: Cases, 1,651; deaths, 982. |
| Bombay | Oct. 3-9 | 1 | 1 | |
| Calcutta | Sept. 17-Oct. 7 | 20 | 17 | |
| Rangoon | Sept. 24-30 | 2 | 2 | |
| Siam: | | | | |
| Bangkok | Sept. 10-16 | 1 | | |

#### PLAGUE.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| Ceylon: | | | | |
| Colombo | Sept. 24-Oct. 7 | 9 | 7 | |
| China: | | | | |
| Chungking | Sept. 24-30 | | | Present. |
| Hongkong | Sept. 17-30 | 2 | 1 | |
| Egypt | | | | Jan. 1-Oct. 19, 1922: Cases, 451; deaths, 209. |
| Suez | Oct. 14-18 | 3 | 1 | |
| India | | | | Sept. 3-9, 1922: Cases, 1,243; deaths, 876. |
| Bombay | Sept. 3-16 | 11 | 7 | |
| Calcutta | Sept. 17-23 | 1 | | |
| Madras Presidency | Oct. 1-7 | 239 | 190 | |
| Rangoon | Sept. 10-30 | 54 | 52 | |
| Italy: | | | | |
| Naples | Sept. 22-28 | 2 | | At Torre Annunziata, suburb of Naples. |
| Madagascar | Nov. 4 | | | Present. |
| Palestine: | | | | |
| Jaffa | Oct. 17-23 | 1 | | Entered in previous issues under Jerusalem. Corrected in Public Health Reports, Nov. 17, 1922, p. 2886. |
| Portugal: | | | | |
| Lisbon | Oct. 9-21 | | 1 | |
| Siam: | | | | |
| Bangkok | Sept. 10-23 | 4 | 3 | |
| Spain: | | | | |
| Barcelona | | | | Oct. 18, 1922: 18 cases present. |

#### SMALLPOX.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| Arabia: | | | | |
| Aden | Oct. 8-14 | 3 | 2 | |
| Brazil: | | | | |
| Bahia | do | 1 | | |
| Pernambuco | Sept. 24-30 | 1 | | |
| Rio de Janeiro | Oct. 8-21 | 16 | 5 | |

[1] From medical officers of the Public Health Service, American counsuls, and other sources.

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

### Reports Received During Week Ended November 24, 1922—Continued.

#### SMALLPOX—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| Canada: | | | | |
| Manitoba— | | | | |
| Winnipeg | Oct. 22-Nov. 4 | 6 | | Oct. 1-31, 1922: Cases, 5. |
| Ontario— | | | | |
| Ottawa | Oct. 29-Nov. 4 | 3 | | |
| Toronto | do | 1 | | |
| Ceylon: | | | | |
| Colombo | Sept. 24-Oct. 7 | 7 | 1 | |
| Dominican Republic: | | | | |
| Santo Domingo | Oct. 29-Nov. 4 | | 1 | |
| Egypt: | | | | |
| Cairo | Aug. 13-19 | 1 | 1 | |
| India | | | | Sept. 3-9, 1922: Cases, 574; deaths, 149. |
| Calcutta | Sept. 17-Oct. 7 | 5 | 5 | |
| Madras | Oct. 1-7 | 24 | 10 | |
| Rangoon | Sept. 10-30 | 13 | 10 | |
| Italy: | | | | |
| Trieste | Sept. 1-Oct. 18 | 11 | 4 | |
| Java: | | | | |
| West Java— | | | | |
| Batavia | Sept. 23-Oct. 6 | 13 | 1 | Province. |
| Mexico: | | | | |
| Mexico City | Oct. 8-14 | 9 | | |
| Portugal: | | | | |
| Lisbon | Oct. 9-21 | 68 | 13 | |
| Oporto | Oct. 1-7 | 3 | | |
| Russia: | | | | |
| Esthonia (Province) | Sept. 1-30 | 1 | | |
| Spain: | | | | |
| Corunna | Oct. 15-21 | | 1 | |
| Switzerland: | | | | |
| Zurich | do | 2 | | |
| Syria: | | | | |
| Damascus | Oct. 1-7 | 1 | 1 | |
| Turkey: | | | | |
| Constantinople | Oct. 15-21 | 9 | 4 | |
| Union of South Africa | | | | Aug. 1-31, 1922: Colored population, cases, 61; white, 3. |
| Cape Province | | | | Aug. 1-31, 1922: Colored, 30 cases. |
| Do | Sept. 17-30 | | | Outbreaks. |
| Orange Free State | | | | Aug. 1-31, 1922: Colored, cases, 4. |
| Transvaal | | | | Aug. 1-31, 1922: Colored, cases, 27; white, 3. |
| Do | Sept. 17-30 | | | Outbreaks. |
| On vessel: | | | | |
| S. S. Clan MacWilliam | Aug. 13 | 1 | | En route from Durban and Delagoa Bay, Union of South Africa, for Newcastle, Australia, via Mauritius. Arrived Newcastle Aug. 25, 1922; proceeded to Sydney in quarantine. Patient, colored fireman. |

#### TYPHUS FEVER.

| | | | | |
|---|---|---|---|---|
| China: | | | | |
| Antung | Oct. 9-15 | 1 | | |
| Egypt: | | | | |
| Cairo | Aug. 13-26 | 5 | 4 | |
| Port Said | do | 3 | 21 | |
| Germany: | | | | |
| Coblenz | Oct. 22-Nov. 4 | 2 | 2 | |
| Mexico: | | | | |
| Mexico City | Oct. 8-14 | 14 | | |
| Portugal: | | | | |
| Oporto | Sept. 24-30 | 1 | | |
| Russia: | | | | |
| Esthonia | Sept. 1-30 | 1 | | Recurrent typhus, cases, 6; paratyphus, cases, 11. |
| Syria: | | | | |
| Aleppo | Oct. 15-21 | 1 | 1 | |
| Damascus | Oct. 1-7 | 1 | | |

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

### Reports Received During Week Ended November 24, 1922—Continued.

**TYPHUS FEVER—Continued.**

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| Turkey: | | | | |
| Constantinople | Oct. 15-21 | 3 | | |
| Union of South Africa | | | | Aug. 1-31, 1922: Colored population, cases, 479; deaths, 84; white, 2. |
| Cape Province | | | | Aug. 1-31, 1922: Cases, 450; deaths, 82 (colored); white, cases, 2. |
| Do | Sept. 17-30 | | | Outbreaks. |
| Natal | | | | Aug. 1-31, 1922: Cases, 16 (colored). |
| Do | Sept. 24-30 | | | Outbreaks. |
| Orange Free State | | | | Aug. 1-31, 1922: Cases, 11; deaths, 2 (colored). |
| Transvaal | | | | Aug. 1-31, 1922: Cases, 2 (colored). |
| Do | Sept. 24-30 | | | Outbreaks. |

### Reports Received from July 1 to November 17, 1922.[1]

**CHOLERA.**

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| China: | | | | |
| Amoy | May 14-June 24 | 1 | 4 | |
| Antung | Sept. 21-Oct. 1 | | | Prevalent in Chinese city and in settlements along Yalu River. |
| Manchuria— | | | | |
| Dairen | Sept. 18-24 | 3 | 2 | |
| Newchwang | July 27 | | | Present. Stated to have been imported from Shanghai. |
| Pootung | Aug. 3 | | | Present. |
| Shanghai | June 25-July 31 | 198 | | Aug. 1-Oct. 1, 1922: Cases, 5, foreign; deaths, 55, Chinese. July 29, 1922: Stated to be 250 cases in Chinese isolation hospital. |
| Tientsin | July 25-Aug. 19 | 4 | 2 | |
| Woosung | Aug. 3 | | | About 75 deaths reported for previous week. |
| Greece: | | | | |
| Athens | June 29 | 1 | 1 | |
| Saloniki | June 7-17 | 30 | 11 | At quarantine station; among passengers from vessel carrying Russian refugees. |
| India | | | | Feb. 26-June 24, 1922: Deaths, 33,979. June 25-Aug. 5, 1922: Deaths, 9,346. Aug. 6-Sept. 2, 1922: Cases, 7,802; deaths, 4,952. (Report for week ended Feb. 25, 1922, not received.) |
| Bombay | Apr. 23-June 17 | 12 | 5 | |
| Do | July 2-Aug. 12 | 5 | 4 | |
| Calcutta | Apr. 23-June 24 | 536 | 378 | |
| Do | June 25-Sept. 16 | 70 | 63 | |
| Madras | May 21-June 17 | 3 | 1 | |
| Do | July 16-Sept. 23 | 5 | 3 | |
| Rangoon | May 7-June 24 | 116 | 65 | |
| Do | June 25-Sept. 2 | 97 | 62 | |
| Indo-China: | | | | |
| Saigon | June 25-Aug. 19 | 30 | 28 | Including area of 100 square km. |
| Japan: | | | | |
| Tokyo | Oct. 4 | | | Epidemic. |
| Yokohama | Oct. 5 | | | Present. |
| Philippine Islands: | | | | |
| Manila | May 21-June 24 | 8 | | |
| Do | June 25-Sept. 2 | 14 | 3 | 1 case, 1 death in nonresident, Aug. 27-Sept. 2, 1922. |
| Province— | | | | |
| Bataan | June 4-10 | 1 | | |
| Batangas | May 26-June 24 | 15 | 11 | |
| Do | June 25-July 22 | 7 | 4 | |

[1] From medical officers of the Public Health Service, American consuls, and other sources.

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

### Reports Received from July 1 to November 17, 1922—Continued.

#### CHOLERA—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| Philippine Islands—Continued. | | | | |
| Province—Continued. | | | | |
| Bulacan | Apr. 30-May 6 | 1 | 1 | |
| Cagayan | Aug. 13-19 | 2 | 2 | |
| Camarines Sur | Mar. 25-Apr. 1 | 1 | 1 | |
| Laguna | Apr. 16-22 | 1 | | |
| Marinduque | June 25-July 15 | 6 | 6 | |
| Mindoro | Apr. 23-29 | 1 | | |
| Nueva Ecija | June 11-17 | 1 | 1 | |
| Pampanga | Apr. 16-June 24 | 6 | 5 | |
| Do | June 25-July 8 | 1 | 1 | |
| Pangasinan | June 18-24 | 3 | 1 | |
| Do | Aug. 27-Sept. 2 | 2 | | |
| Rizal | Apr. 2-June 24 | 3 | 1 | |
| Tarlac | May 21-June 10 | 4 | 4 | |
| Union | Aug. 6-Sept. 9 | 3 | 2 | |
| Poland | | | | July 9-Sept. 7, 1922: Cases, 101; deaths, 28. |
| Rovno | June 11-24 | 8 | 3 | Repatriation station: Cases occurring among persons repatriated from Russia. |
| Do | June 25-Aug. 5 | 33 | 10 | |
| Volhynia | July 2-8 | 1 | 1 | |
| Zamosc | Aug. 21 | | 1 | |
| Rumania: | | | | |
| Bucharest | do | 1 | | |
| Crangasi | | | | To July 31, 1922: Cases, 11; deaths, 6. First case in soldier from frontier on Dniester River. Crangasi, a suburb of Bucharest. |
| Province— | | | | |
| Bessarabia— | | | | |
| Cobusea | July 24 | 1 | | |
| Codrosati | | 3 | | Reported Aug. 11. |
| Orhei | | | | Prefecture. Cholera reported Aug. 11 among troops in garrison. |
| Rascautzi | | 11 | 1 | Reported July 29. |
| Siam: | | | | |
| Bangkok | Apr. 30-June 17 | 15 | 9 | |
| Do | July 2-Sept. 2 | 12 | 5 | |
| Straits Settlements: | | | | |
| Singapore | July 16-22 | 1 | 1 | |
| Syria: | | | | |
| Aleppo | May 27-June 3 | | | A few cases in interior. |
| Do | June 25-Sept. 2 | | | Present in interior. |
| On vessels: | | | | |
| S. S. Chios | July 16 | 1 | | At Kavak Quarantine Station: Bosporus, from Novorossysk, a Russian Black Sea port. Case occurred in a recognized carrier. Vessel carried refugees for Saloniki, Greece. Six bodies buried at sea; 12 cases landed at Kavak during stay. |
| ——— | Sept. 18-24 | 2 | 1 | At Dairen, Manchuria, China. Name and origin of vessel not stated. |

#### PLAGUE.

| | | | | |
|---|---|---|---|---|
| Algeria: | | | | |
| Algiers | Aug. 27 | 1 | | |
| Oran | Aug. 1-31 | 10 | 3 | |
| Asia Minor: | | | | |
| Smyrna | May 28-June 17 | 3 | 1 | |
| Do | June 30-Aug. 26 | 8 | 1 | District. |
| Australia: | | | | |
| New South Wales— | | | | |
| Sydney | June 1-15 | 2 | | Apr. 2-June 10, 1922: 19 plague-infected rats found. |
| Queensland— | | | | |
| Brisbane | July 23-29 | | | One plague rat. |
| Azores: | | | | |
| Fayal Island | | | | Jan. 16-Feb. 8, 1922: Cases, 6; deaths, 4. |
| Horta | Feb. 2-8 | 4 | 2 | |

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

### Reports Received from July 1 to November 17, 1922—Continued.

#### PLAGUE—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| Azores—Continued. | | | | |
| St. Michaels Island | Sept. 9-Oct. 14 | 202 | 26 | Jan. 1-May 13, 1922: Cases, 93; deaths, 55. June 25-Oct. 14, 1922: Cases, 287; deaths, 49. In localities 3-9 miles from Ponta-Delgada. |
| Ponta Delgada | Oct. 1-19 | 6 | | |
| Brazil: | | | | |
| Bahia | June 11-17 | 1 | | May 7-June 4: Rodent; occurring in one section of the city. Many dead rats found. |
| Do | Aug. 20-Sept. 30 | 2 | 1 | |
| Pernambuco | May 7-13 | 1 | | |
| Porto Alegre | July 30-Sept. 30 | 1 | 5 | |
| British Eash Africa: | | | | |
| Kenya Colony | | | | Mar. 1-June 30, 1922: Cases, 371; deaths, 344. July 9-15, 1922: Deaths, 14. |
| Nairobi | Feb. 1-28 | 15 | 15 | |
| Cape Verde Islands: | | | | |
| St. Vincent | Sept. 4 | | | Present. |
| Ceylon: | | | | |
| Colombo | May 6-June 24 | 13 | 10 | Plague rats, 5. |
| Do | June 25-Sept. 23 | 22 | 23 | Plague rats, 12. |
| China: | | | | |
| Amoy | May 7-June 24 | | 87 | May 20, 1922: From 10 to 20 deaths reported daily. July 16-Aug. 12, 1922: Present; stated to be decreasing. |
| Do | June 25-July 15 | | 76 | |
| Canton | May 1-June 30 | 28 | 23 | |
| Foochow | May 7-June 10 | 5 | 4 | June 17-24, 1922: Present. June 21: Mildly epidemic; 2 fatal cases in foreign physicians. Aug. 13-Sept. 23, 1922: Present. |
| Do | July 2-Aug. 12 | 3 | 1 | |
| Hongkong | June 4-24 | 176 | 104 | |
| Do | June 25-Sept. 16 | 146 | 101 | |
| Ecuador: | | | | |
| Guayaquil | June 1-15 | | | Rats found infected, 16; examined, 3,400. |
| Do | July 1-Oct. 15 | 1 | 1 | Rats examined, 25,725; found infected, 61. |
| Egypt | | | | Jan. 1-June 29, 1922: Cases, 280; deaths, 120. Jan. 1-Aug. 10, 1922. Cases, 439; deaths, 204. (Corrected report.) |
| City— | | | | |
| Alexandria | June 1-28 | 21 | 6 | |
| Do | July 2-Sept. 9 | 18 | 7 | |
| Port Said | June 12-25 | 2 | 5 | Septicemic, 1. |
| Do | July 2-Oct. 5 | 31 | 22 | Foreign cases, 2; deaths, 2. |
| Suez | May 24-June 25 | 7 | 6 | |
| Do | July 10-Aug. 8 | 3 | 2 | Aug. 5, 1922: One case imported from Mauritius on S. S. Dumbea. |
| Province— | | | | |
| Assiout | May 30-June 23 | 14 | 8 | Septicemic, 1. |
| Do | July 11-Aug. 5 | 6 | 3 | |
| Benisouef | May 26-June 30 | 19 | 7 | |
| Do | July 2-Sept. 2 | 29 | 13 | |
| Fayoum | June 3-29 | 8 | 4 | |
| Do | July 2-20 | 13 | 3 | |
| Gharbieh | May 26-June 30 | 37 | 13 | |
| Do | July 2 | 3 | | |
| Menoufieh | July 20 | 1 | 1 | |
| Minieh | June 2-29 | 24 | 7 | |
| Do | July 14-Sept. 30 | 19 | 10 | |
| Sinnuris (district) | Sept. 3-9 | 1 | | |
| France: | | | | |
| Paris | Aug. 11-18 | 4 | | |
| Greece: | | | | |
| Patras | Apr. 24-June 25 | 5 | 3 | |
| Piræus | Aug. 1-31 | 3 | 1 | |
| Hawaii: | | | | |
| Hamakua | June 30-July 4 | 1 | 1 | At Kalopa Homesteads. Case Hawaiian. |
| Do | July 8-Oct. 20 | | 1 | Hamakua Mill Co. One plague rat trapped; found positive July 14, 1922. Oct. 9-14, 1922 2 plague rats. |

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

### Reports Received from July 1 to November 17, 1922—Continued.

#### PLAGUE—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| Hawaii—Continued. | | | | |
| Honokaa | Aug. 19-Sept. 10 | | 4 | Japanese and Filipinos; bubonic and septicemic. Oct. 5, 1922: One case, one death. Reported positive Oct. 12. At Honokaa Mill occurring in family of fatal case reported Aug. 24, 1922. Aug. 12-Sept. 13, 1922; 3 plague rats found. |
| Honokaa Mill | Aug. 24 | 1 | 1 | Japanese; pneumonic. |
| Kalopa | July 13 | 1 | 1 | Contact with case at Kalopa Homesteads, July 4. |
| Paahau | June 30 | | | One plague rat trapped at Paauhau Gulch, June 29; found positive June 30, 1922. |
| Paauilo | July 7 | | 1 | At Pohakea; Japanese. Sept. 25, 1922: One plague rat found at Hamakua Mill. |
| Pohakea | Aug. 1-16 | 2 | 2 | Aug. 1, Japanese child; case reported positive for plague Aug. 6, 1922. Form, pneumonic. Aug. 16, 1 fatal case in Japanese. |
| Pohakuhaku | July 12 | 1 | 1 | Hawaiian. Reported positive, July 19. |
| India | | | | Apr. 23-June 24, 1922: Cases, 6,310; deaths, 4,812. June 25-Sept. 2, 1922: Cases, 6,011; deaths, 4,244. |
| Bombay | Apr. 23-June 24 | 168 | 123 | Surrounding country, July 2-8, 1922: Cases, 21; deaths, 16. |
| Do | June 25-Sept. 2 | 49 | 38 | |
| Calcutta | Apr. 23-June 24 | 56 | 54 | |
| Do | June 25-Aug. 19 | 16 | 16 | |
| Karachi | May 23-June 24 | 59 | 55 | |
| Do | June 25-Sept. 30 | 6 | 5 | |
| Madras Presidency | May 21-June 24 | 74 | 36 | |
| Do | June 25-Sept. 30 | 1,646 | 1,063 | |
| Rangoon | May 6-June 24 | 175 | 161 | |
| Do | June 25-Sept. 9 | 392 | 355 | |
| Indo-China: | | | | |
| Saigon | Apr. 23-June 24 | 30 | 21 | |
| Do | June 25-Aug. 19 | 10 | 7 | Including area of 100 square kilometers. |
| Italy: | | | | |
| Catania | June 17 | 1 | | |
| Naples | July 18-Sept. 16 | 17 | | Occurring in suburbs, viz, at Torre Annunziata, July 18 Sept. 10, 1922, 16 cases; San Giovanni a Teduccio, July 25, 1922, 1 case. |
| Japan: | | | | |
| Osaka | July 11-20 | 7 | 6 | Reported as having occurred during past month; Cases, 9; deaths, 8. |
| Java | | | | Month of April, 1922: Report of the 7 Provinces of Java: Cases, 413; deaths, 405. May 1-31, 1922: Cases, 293; deaths, 310; occurring in 6 Provinces. June 1-30, 1922: Cases, 222; deaths, 239; occurring in 5 Provinces, July 1-Aug. 31, 1922: Cases, 416; deaths, 447; occurring in 5 Provinces. |
| East Java— | | | | |
| Soerabaya | May 7-June 24 | 3 | 3 | |
| Soerakarta— | | | | |
| Keporen | May 20 | | | Epidemic. |
| Madagascar: | | | | |
| Tananarive Province— | | | | |
| Anketrina | May 4 | | 1 | Native village; disease stated to have been present since about Apr. 27, 1922. (Name of locality corrected.) |

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

### Reports Received from July 1 to November 17, 1922—Continued.

#### PLAGUE—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| Madagascar—Continued. | | | | |
| Tananarive Province—Con. | | | | |
| Tamatave | June 26-July 2 | 2 | 1 | |
| Do | Aug. 21-Sept. 13 | | | Present, Aug. 17, 1922: 1 case. Aug. 18, 1922: 1 death. Aug. 21-Sept. 10, 1922: Deaths, 3. |
| Tananarive | May 29-June 18 | 2 | 1 | |
| Do | July 10-23 | 2 | 2 | |
| Mauritius Island | | | | Aug. 7-19, 1922: Cases, 2. Oct. 19, 1922: 65 fatal cases reported. |
| Mesopotamia: | | | | |
| Bagdad | Apr. 1-June 30 | 268 | 188 | |
| Do | July 1-Aug. 31 | 29 | | |
| Mexico: | | | | |
| Tampico | | | | Sept. 24-30, 1922: 1 plague rat. |
| Vera Cruz | | | | June 30, 1922: 1 plague rat. |
| Palestine: | | | | |
| Jaffa | July 4-Oct. 9 | 45 | 2 | In native quarter. Name of locality corrected. |
| Peru | | | | May 1-15, 1922: Cases, 36: deaths, 19. June 1-30, 1922: Cases, 87; deaths, 15. July 1-Aug. 31, 1922: Cases, 95; deaths, 51. Jan.-June, 1922: Cases, 394; deaths, 173. |
| Callao | Jan. 1-June 30 | 24 | 10 | Country district, cases, 2. (Corrected report.) |
| Lima | Jan. 1-June 30 | 30 | 16 | Country district, cases, 28; deaths, 11. |
| Philippine Islands: | | | | |
| Manila | June 3 | 1 | 1 | From S. S. Taisang from Amoy, China. |
| Do | Aug. 20-26 | 2 | | |
| Portugal: | | | | |
| Lisbon | July 23-Sept. 2 | 4 | 5 | |
| Portuguese West Africa: | | | | |
| Angola— | | | | |
| Loanda | Oct. 25 | | | Present. |
| Guinea | | | | Reported present Aug. 24, 1922. |
| Senegal: | | | | |
| Dakar | June 1-30 | 1 | 1 | |
| Do | July 1-31 | 2 | 2 | |
| Siam: | | | | |
| Bangkok | Apr. 30-June 3 | 4 | 3 | |
| Do | July 2-Sept. 2 | 8 | 7 | |
| Spain: | | | | |
| Barcelona | Sept. 24-Oct. 19 | 6 | 6 | Stated to be confined to factory in which disease first appeared. Oct. 18, 1922: 13 cases present. |
| Cartagena | Oct. 18 | 2 | | |
| Valencia | do | 2 | | |
| Straits Settlements: | | | | |
| Singapore | Apr. 30-June 24 | 8 | 9 | |
| Do | July 9-Aug. 26 | 3 | 3 | |
| Syria: | | | | |
| Aleppo | Sept. 9-16 | | 1 | |
| Alexandretta | | | | Oct. 8-14, 1922: 1 plague rat. |
| Beirut | July 30-Aug. 13 | 7 | 1 | |
| Tunis: | | | | |
| Tunis | June 30-Sept. 9 | 4 | 1 | |
| Turkey: | | | | |
| Constantinople | Aug. 20-Oct. 7 | 12 | 8 | |
| Union of South Africa: | | | | |
| Orange Free State— | | | | |
| Grootkom Farm | May 7-13 | | | One dead plague-infected rodent found. Locality adjoins Trucart's Berg Farm, on which plague-infected mouse was found preceding week. |
| Rendezvous Ry. Station | May 14-20 | | | Plague-infected wild rodent found near. |
| On vessels: | | | | |
| S. S. Ardeola | June 25-July 8 | | | At Liverpool. Four plague-infected rats found dead. Vessel from Las Palmas, Canary Islands, June 26, 1922. |

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

### Reports Received from July 1 to November 17, 1922—Continued.

#### PLAGUE—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| On vessels—Continued. | | | | |
| S. S. Barcelona | Nov. 11 | 1 | | At Habana, Cuba, from Barcelona, Spain, via Canary Islands. Patient from Canary Islands. |
| S. S. Dumbea | Aug. 5 | 1 | | At Suez, Egypt, from Island of Mauritius. Patient ill two days before arrival. Declared positive Aug. 6. |
| Greek vessel | July 19 | | | At Messina, Italy. Cases on board. Vessel not allowed to enter. |
| S. S. Legie | July 29 | | | At Hamburg, Germany. Plague rats found. Vessel from Buenos Aires, Argentina. |
| S. S. Southgate | May 30 | 1 | | At Thursday Island quarantine, Australia. Vessel left Calcutta May 2; Rangoon, May 9. Vessel badly rat-infested. |
| S. S. Taisang | June 1-3 | 1 | 1 | At Manila, P. I., from Amoy, China. Patient landed at Manila June 1, 1922. The Taisan was 2½ days en route direct from Amoy. |

#### SMALLPOX.

| | | | | |
|---|---|---|---|---|
| Arabia: | | | | |
| Aden | May 7-June 24 | 60 | 21 | |
| Do | July 2-Oct. 7 | 49 | 24 | |
| Argentina: | | | | |
| Rosario | June 1-30 | | 3 | |
| Asia Minor: | | | | |
| Smyrna | May 14-June 24 | 4 | | In district. |
| Do | June 25-Aug. 26 | 13 | | Do. |
| Bermuda: | | | | |
| Hamilton | Sept. 3-30 | 3 | | |
| Bolivia: | | | | |
| La Paz | Mar. 1-Apr. 30 | 97 | 16 | |
| Brazil: | | | | |
| Bahia | June 25-July 1 | 1 | 1 | |
| Para | May 29-June 25 | 8 | | |
| Do | July 3-Sept. 17 | 141 | 2 | Aug. 22-28, 1922: Cases, 16. |
| Rio de Janeiro | May 14-June 24 | 48 | 12 | |
| Do | June 25-Oct. 7 | 166 | 37 | |
| Sao Paulo | Apr. 10-June 11 | 3 | 10 | |
| British East Africa: | | | | |
| Kenya Colony | | | | Apr. 1-June 30, 1922: Cases, 15. |
| Dar-es-Salaam | Apr. 16-June 10 | 26 | | July 9-15, 1922: Deaths, 5. |
| Do | July 16-Aug. 12 | 18 | 2 | |
| Nairobi | Mar. 1-31 | 22 | 2 | |
| Tanganyika Territory | Aug. 20-Sept. 2 | 27 | 4 | |
| Zanzibar | May 1-June 10 | 36 | 6 | |
| Do | June 24-July 1 | 2 | | |
| Canada: | | | | |
| Alberta— | | | | |
| Calgary | June 18-24 | 1 | | |
| Manitoba— | | | | |
| Winnipeg | May 6-June 17 | 3 | | |
| Do | Sept. 3-9 | 1 | | |
| New Brunswick— | | | | |
| Kent County | June 25-July 1 | 2 | | |
| Madawaska County | June 4-17 | 6 | | |
| Do | Sept. 10-Oct. 7 | 2 | 1 | |
| Ontario | | | | Sept. 1-30, 1922: Cases, 19; deaths, 1. |
| Fort William and Port Arthur. | Aug. 6-Sept. 23 | 3 | | |
| Hamilton | July 30-Aug. 12 | 2 | | |
| London | Aug. 26-Sept. 2 | 1 | | |
| North Bay | June 3-17 | 2 | | |
| Do | July 16-Aug. 12 | 3 | | |
| Ottawa | June 11-July 1 | 17 | | |
| Do | July 2-Oct. 21 | 16 | | |
| Toronto | June 18-Sept. 9 | 10 | | |

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

### Reports Received from July 1 to November 17, 1922—Continued.

#### SMALLPOX—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| Canada—Continued. | | | | |
| Saskatchewan— | | | | |
| Regina | Sept. 17-23 | 1 | | Imported. |
| Saskatoon | Aug. 20-26 | 1 | | |
| Ceylon: | | | | |
| Colombo | May 14-20 | 1 | | |
| Do | July 16-Sept. 23 | 11 | | |
| Chile | | | | Prevalent, July 3, 1922, throughout southern Provinces. |
| Concepcion | Mar. 14-June 20 | | 71 | |
| Do | June 27-Sept. 4 | | 30 | |
| Quillon | | | | In Concepcion Province: Epidemic in May, 1922, with 60 reported cases. To June 5, epidemic. |
| Do | June 27-July 3 | | | Epidemic. |
| San Patricio | May 16-22 | 13 | | |
| Talcahuano | May 22-June 24 | 33 | 19 | May 16-22, 1922: Present. |
| Do | June 25-July 30 | 5 | 7 | |
| Temuco | | | | Province of Cautin; epidemic in May, 1922. |
| Valparaiso | Mar. 26-June 19 | | 115 | Incomplete; several districts not reporting. |
| Do | June 25-July 30 | | 46 | |
| China: | | | | |
| Amoy | May 7-20 | | | Present. June 18-24, 1922: 1 death. |
| Do | July 16-Sept. 16 | | | Present. |
| Antung | May 29-June 18 | 4 | | |
| Do | July 3-16 | 5 | | |
| Chungking | May 28-June 24 | | | Do. |
| Do | June 25-Sept. 23 | | | Do. |
| Foochow | May 14-20 | 1 | | Aug. 13-19, 1922: Present. |
| Do | Aug. 27-Sept. 9 | | | Present. |
| Hankow | June 25-July 1 | 1 | | |
| Hongkong | May 14-June 24 | 41 | 32 | |
| Do | July 16-Sept. 16 | 5 | 2 | Aug. 13-26, 1922: Present. |
| Manchuria— | | | | |
| Dairen | May 15-June 18 | 4 | 1 | |
| Do | June 26-Sept. 17 | 7 | 1 | |
| Harbin | May 22-28 | 1 | | |
| Do | July 30-Aug. 5 | 1 | | |
| Mukden | June 18-24 | | | Present. |
| Do | July 16-Sept. 23 | | | Do. |
| Nanking | May 7-June 24 | | | Do. |
| Do | June 25-Sept. 23 | | | Do. |
| Shanghai | May 22-28 | 1 | | Native. |
| Tientsin | May 14-20 | | | Present. |
| Tsingtau | May 9-June 18 | 4 | 3 | Including leased territory of Kiaochow, Japanese population along Shantung Railway, and Japanese residents, Tsinan. |
| Do | June 26-July 30 | 5 | 3 | Do. |
| Chosen (Korea): | | | | |
| Chemulpo | May 1-31 | 1 | | |
| Fusan | May 1-June 30 | 147 | 60 | |
| Do | July 1-31 | 13 | 9 | |
| Seoul | May 1-June 30 | 26 | 5 | |
| Do | July 1-31 | 23 | 8 | |
| Cuba | | | | July 1-Aug. 31, 1922: Cases, 77 |
| City— | | | | |
| Antilla | June 18-24 | 1 | | Reported for Preston. |
| Do | Sept. 17-21 | 2 | | |
| Cienfuegos | June 24-July 1 | 1 | | |
| Habana | July 1-Aug. 31 | 10 | | |
| Sagua la Grande | Oct. 15-21 | 1 | | In vicinity, at Rancho Veloz. |
| Santiago | June 1-30 | 3 | | |
| Do | Sept. 1-30 | 1 | | |
| Province— | | | | |
| Habana | Aug. 20-31 | 1 | | |
| Matanzas | do | 1 | | |
| Oriente | do | 3 | | |
| Santa Clara | do | 4 | | |
| Domenica | Aug. 5-Sept. 9 | | | Present. Aug. 23: Epidemic. Island in Leeward Islands. |
| Dominican Republic: | | | | |
| Puerto Plata | Sept. 12-Oct. 14 | 8 | | |
| San Pedro de Macoris | May 21-June 24 | 167 | 2 | City and country. (Corrected report.) |

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

### Reports Received from July 1 to November 17, 1922—Continued.

#### SMALLPOX—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| Dominican Republic—Contd. | | | | |
| San Pedro de Macoris | June 25-Oct. 28 | 384 | 2 | City and district. (Corrected report.) |
| Santo Domingo | June 4-24 | 3 | 9 | Including vicinity. |
| Do | June 25-Oct. 28 | 5 | 6 | July 30-Aug. 5, 1922: A few cases city and vicinity. |
| Ecuador: | | | | |
| Guayaquil | July 16-Oct. 15 | 12 | | |
| Milagro | Sept. 1-15 | 1 | | |
| Nobol | do | 1 | | |
| Egypt: | | | | |
| Alexandria | July 23-Aug. 12 | 2 | 2 | |
| Cairo | Apr. 30-June 24 | 13 | 5 | |
| Do | July 23-Aug. 5 | 6 | 1 | |
| Port Said | May 7-June 24 | 3 | 1 | |
| Do | July 23-29 | 1 | | |
| Finland | June 1-30 | 2 | | |
| Do | July 1-15 | 1 | | |
| Fiume | June 13-19 | 1 | | |
| Do | July 10-16 | 1 | | |
| France: | | | | |
| Paris | June 1-10 | 1 | 1 | |
| Great Britain: | | | | |
| Halifax | | | | Outbreak reported under date of June 17, 1922. |
| Huddersfield | | | | Do. |
| Liverpool | Aug. 13-19 | 1 | | In port hospital. |
| London | July 30-Oct. 14 | 7 | 3 | |
| Sheffield | May 28-June 17 | 5 | | |
| Southampton | June 18-24 | 2 | | |
| Greece: | | | | |
| Saloniki | May 1-June 25 | 3 | 1 | |
| Do | July 17-23 | | 1 | |
| Syra Island | May 26 | 12 | 5 | |
| Haiti: | | | | |
| Cape Haitien | June 11-17 | 1 | | |
| Plaine du Nord | do | | | Vicinity of Cape Haitien. Present. |
| India | | | | Feb. 26-Mar. 25, 1922: Deaths, 1,162 (date of report corrected). Mar. 26-May 20, 1922: Deaths, 6,015. June 4-24: Cases, 2,813; deaths, 919. June 25-Sept. 2, 1922: Cases, 8,516; deaths, 2,228. |
| Bombay | Apr. 23-June 24 | 38 | 17 | |
| Do | July 2-15 | 4 | 2 | |
| Calcutta | Apr. 23-June 24 | 84 | 67 | |
| Do | June 25-Sept. 16 | 29 | 22 | |
| Karachi | May 23-June 24 | 35 | 9 | |
| Do | July 16-Sept. 30 | 18 | 5 | |
| Madras | May 14-June 24 | 207 | 94 | June 19-25, 1922: Cases, 30; deaths, 15. |
| Do | July 2-Sept. 30 | 477 | 217 | |
| Rangoon | May 7-June 24 | 37 | 16 | |
| Do | July 2-Sept. 9 | 49 | 23 | |
| Indo-China: | | | | |
| Saigon | June 30-Aug. 19 | 36 | 26 | Including area of 100 square km. |
| Japan: | | | | |
| Kobe | June 19-25 | 2 | | |
| Taiwan Island | June 11-30 | 26 | 3 | |
| Do | July 22-Aug. 10 | 27 | 4 | |
| Yokohama | May 29-June 25 | 4 | 2 | |
| Do | June 26-July 20 | 48 | 8 | |
| Java: | | | | |
| East Java— | | | | |
| Soerabaya | Aug. 13-19 | 2 | | |
| West Java— | | | | |
| Batavia | Apr. 28-June 30 | 20 | 3 | City and Province. |
| Do | July 9-Sept. 22 | 45 | 8 | Province. |
| Luxemburg | June 15-30 | 1 | 1 | |
| Malta | May 1-June 15 | 4 | | June 1-30, 1922: Cases, 2. |
| Mesopotamia: | | | | |
| Bagdad | Apr. 1-June 30 | 36 | 40 | |
| Do | July 1-Aug. 31 | 57 | | |
| Mexico: | | | | |
| Chihuahua | June 22-Sept. 17 | | 2 | |
| Guadalajara | May 1-June 30 | 13 | | |
| Do | July 1-Sept. 17 | 5 | 1 | |
| Manzanillo | June 6-25 | | 4 | Estimated cases, 4 to 10. |
| Do | June 27-July 3 | 6 | 1 | Estimated. |

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

### Reports Received from July 1 to November 17, 1922—Continued.

#### SMALLPOX—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| **Mexico—Continued.** | | | | |
| Mexico City | May 21-June 24 | 129 | | Including municipalities in Federal District. Report June 11-17, not received. |
| Do | June 25-Oct. 7 | 211 | | Including municipalities in Federal District. |
| Nogales | July 22-Aug. 5 | 26 | 3 | State of Sonora. |
| San Luis Potosi | July 23-Oct. 7 | | 12 | |
| Torreon | July 1-31 | | 1 | |
| Panama Canal | | | | July 1-31, 1922: Cases, 4, of which 1 nonresident and not locally reported. July 28-Sept. 28, 1922: Cases, 3; of these, nonresident, 2. |
| Colon | July 1-Oct. 15 | 3 | | |
| Panama | July 1-Aug. 15 | 2 | | |
| **Persia:** | | | | |
| Teheran | Apr. 23-May 22 | 2 | | |
| Peru | | | | May 1-15, 1922: Cases, 5; deaths, 4. June 1-30, 1922: Cases, 16; deaths, 7. Aug. 1-31, 1922: cases, 23, deaths, 5. |
| Callao | | | | Jan. 1-June 30, 1922: Deaths, 1. |
| Lima | | | | Jan. 1-June 30, 1922: Deaths, 23. |
| Poland | | | | Mar. 26-June 24, 1922: Cases, 1,210; deaths, 241. |
| Do | | | | June 25-Sept. 7, 1922: Cases, 253; deaths, 54. |
| Portugal: | | | | |
| Lisbon | May 29-June 25 | 6 | 8 | Corrected report. |
| Do | June 25-Oct. 14 | 224 | 69 | Do. |
| Oporto | Aug. 27-Sept. 2 | 1 | | |
| Portuguese East Africa: | | | | |
| Lourenco Marques | July 23-29 | 1 | | |
| Portuguese West Africa: | | | | |
| Angola— | | | | |
| Loanda | June 25-July 1 | | 1 | |
| Russia: | | | | |
| Esthonia | May 1-June 30 | 6 | | |
| Do | July 1-31 | 1 | | |
| Lettonia | May 1-June 30 | 51 | | |
| Do | July 1-Aug. 31 | 20 | | |
| Senegal: | | | | |
| Dakar | June 1-30 | 4 | 4 | |
| Spain: | | | | |
| Barcelona | June 22-28 | | 1 | |
| Do | June 29-Sept. 13 | | 3 | |
| Bilbao | Aug. 1-Sept. 30 | | 5 | |
| Cadiz | Aug. 1-30 | | 1 | |
| Coruna | June 11-17 | | 1 | |
| Huelva | Apr. 1-June 30 | | 4 | |
| Do | July 1-Aug. 31 | | 2 | |
| Seville | June 11-17 | | 36 | Week ended June 11, 1922: Many cases. |
| Do | June 18-Oct. 8 | | 151 | |
| Valencia | May 21-27 | 1 | | |
| Straits Settlements: | | | | |
| Singapore | Apr. 30-June 5 | 11 | 2 | |
| Do | July 30-Aug. 19 | 3 | 1 | |
| Switzerland: | | | | |
| Basel | May 28-June 3 | 1 | | |
| Do | Sept. 17-23 | 1 | | |
| Berne | May 14-20 | 1 | | |
| Do | July 9-Sept. 23 | 20 | | |
| Lucerne | July 1-31 | 1 | | |
| Zurich Canton | | | | Aug. 1-31, 1922: Cases, 74. |
| Zurich | Apr. 23-June 12 | 9 | | |
| Do | June 25-Oct. 14 | 80 | | Aug. 1-31, 1922: Cases, 61. |
| Syria: | | | | |
| Aleppo | June 4-24 | | | Present. |
| Damascus | June 18-24 | | 2 | |
| Do | June 25-Sept. 30 | 21 | 2 | |
| Tunis: | | | | |
| Tunis | July 17-23 | 1 | | |
| Turkey: | | | | |
| Constantinople | May 21-June 24 | 21 | 6 | |
| Do | June 25-Oct. 14 | 58 | 15 | |

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

### Reports Received from July 1 to November 17, 1922—Continued.

#### SMALLPOX—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| Union of South Africa | | | | Apr. 1-June 30, 1922: Cases, 173; deaths, 12 (colored); white, cases, 36. July 1-31, 1922: Colored, cases, 171; deaths, 3; white, 6 cases. |
| Cape Province | | | | Apr. 1-June 30, 1922: Cases, 87; deaths, 3 (colored); white, 6 cases. July 1-31, 1922: Cases, 59; deaths, 2 (colored). |
| Do | Aug. 20-Sept. 9 | | | Outbreaks. |
| Natal | | | | Apr. 1-May 31, 1922: Cases, 20; deaths, 8 (colored); white, 20 cases. July 1-31, 1922: Cases, 5 (colored). |
| Orange Free State | | | | May 1-31, 1922: Cases, 12; deaths, 1 (colored). July 1-31, 1922: 1 case (colored). |
| Do | Sept. 3-9 | | | Outbreaks. |
| Southern Rhodesia | May 11-June 28 | 67 | 4 | In natives, 3 cases. |
| Do | June 29-Aug. 23 | 35 | | |
| Transvaal | | | | Apr. 1-June 30, 1922: Cases, 54 (colored); white, 10 cases. July 1-31, 1922: Colored, cases, 105; deaths, 1; white, 6 cases. |
| Do | July 9-Sept. 2 | | | Outbreaks. |
| Johannesburg | May 1-31 | 1 | | |
| Virgin Islands: | | | | |
| St. Thomas | June 5-18 | 1 | 1 | At quarantine. From vessel from Dominican Republic. |
| Yugoslavia | | | | Sept. 4-24, 1921: Cases, 11; deaths, |
| Croatia-Slavonia— | | | | |
| Zagreb | June 4-10 | 1 | | |
| Do | Aug. 6-12 | 1 | | |
| Serbia | | | | Oct. 23-29, 1921: Cases, 5. |
| Belgrade | June 11-17 | 1 | | |
| Do | Aug. 14-Sept. 24 | 34 | 12 | |
| On vessels: | | | | |
| S. S. Changsha | May 11 | 1 | | At Hongkong, China. Case landed from vessel; patient, intending passenger. Vessel proceeded to Australian ports. |
| S. S. Comeric | do | 1 | | At sea, en route to Durban, S. A., from Sydney, Australia. (Public Health Reports, June 23, 1922, p. 1555.) |
| Schr. Fancy Me | May 28 | | | At St. Thomas, Virgin Islands From San Pedro de Macoris, Dominican Republic. 1 case removed to quarantine June 5; died June 18. |
| S. S. Montoro | July 8 | 1 | | At Darwin, Australia. Vessel left Singapore June 28 for Darwin via Java ports; Case, Chinese, developed July 4. Case landed at quarantine; vessel proceeded in quarantine to Sydney, via northern ports. |
| S. S. Shelley | Apr. 19 | 1 | | At sea, en route from Hongkong. Vessel left Hongkong Apr. 17. Arrived Thursday Island quarantine, Australia, Apr. 28, 1922. Case, member of crew; type, confluent hemorrhagic. |
| S. S. St. Albans | May 18 | 1 | | At Thursday Island quarantine, Australia. Case in person of Chinese steerage passenger. Vessel left Shimonoseki, Japan, for Melbourne via Hongkong and Manila. Left Thursday Island for Australian ports. |

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

### Reports Received from July 1 to November 17, 1922—Continued.

#### TYPHUS FEVER.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| Algeria: | | | | |
| Algiers | May 1-31 | 16 | 4 | |
| Do | Aug. 1-Sept. 30 | 5 | 3 | |
| Oran | June 1-30 | 3 | 1 | |
| Do | July 1-Oct. 10 | 1 | 4 | |
| Asia Minor: | | | | |
| Smyrna | May 14-June 24 | 8 | | City and district. (Corrected report.) |
| Do | June 25-Aug. 19 | 11 | | District. |
| Australia: | | | | |
| Brisbane | July 9-Aug. 12 | 2 | | |
| Austria: | | | | |
| Vienna | May 7-June 10 | 3 | 1 | |
| Do | July 2-Aug. 19 | 3 | 1 | |
| Bolivia: | | | | |
| La Paz | Mar. 1-Apr. 30 | 15 | 8 | |
| Bulgaria: | | | | |
| Sofia | May 28-June 17 | 4 | | |
| Do | Sept. 24-30 | 1 | 1 | |
| Chile: | | | | |
| Concepcion | Apr. 11-May 29 | | 10 | |
| Do | June 27-Sept. 4 | | 7 | |
| Valparaiso | Apr. 2-22 | | 6 | |
| Do | July 18-Sept. 30 | | 26 | |
| China: | | | | |
| Antung | May 15-21 | 1 | | |
| Do | July 10-Sept. 17 | 11 | | |
| Foochow | May 14-20 | 1 | | |
| Do | Aug. 6-12 | 4 | | |
| Hankow | July 9-15 | 1 | 1 | |
| Manchuria— | | | | |
| Harbin | May 8-June 11 | 4 | | |
| Do | June 26-Sept. 10 | 7 | | |
| Tsingtau | Sept. 11-18 | | 1 | |
| Czechoslovakia: | | | | |
| Prague | June 11-17 | 1 | | |
| Do | July 1-Aug. 26 | 2 | 1 | |
| Danzig (free city) | June 4-10 | 1 | | |
| Egypt: | | | | |
| Alexandria | June 4-24 | 9 | 6 | |
| Do | June 25-Oct. 14 | 27 | 14 | July 22-29, 1922: 1 imported paratyphoid. |
| Cairo | Mar. 19-June 24 | 19 | 62 | Relapsing fever, Mar. 26-Apr. 8; 1 case. |
| Do | June 25-Aug. 12 | 34 | 25 | |
| Port Said | May 28-June 3 | 1 | | |
| Do | July 2-Sept. 2 | 8 | 8 | |
| Germany | | | | May 1-6, 1922: 5 cases typhus fever at quarantine station of Osternothafen, in persons returning from Russia. |
| Berlin | Apr. 30-June 24 | | 7 | |
| Do | June 25-Sept. 2 | | 17 | |
| Coblenz | July 2-Oct. 14 | 23 | 1 | |
| Königsberg | May 28-June 3 | 1 | | |
| Do | Sept. 3-9 | 1 | | |
| Stuttgart | July 22-Aug. 26 | 2 | 1 | |
| Great Britain: | | | | |
| Glasgow | Sept. 17-23 | 1 | 1 | |
| Greece: | | | | |
| Piræus | Aug. 1-31 | 1 | | |
| Saloniki | May 1-June 18 | 25 | 1 | 2 in Russian refugees. |
| Indo-China: | | | | |
| Saigon | Aug. 6-19 | 1 | | |
| Java: | | | | |
| East Java— | | | | |
| Soerabaya | July 23-Aug. 5 | 4 | 2 | |
| Mesopotamia: | | | | |
| Bagdad | Apr. 1-June 30 | 7 | 2 | |
| Do | Aug. 1-31 | 5 | | |
| Mexico: | | | | |
| Mexico City | Apr. 23-June 24 | 111 | | Including municipalities in Federal District. |
| Do | June 25-Oct. 7 | 252 | | Do. |
| San Luis Potosi | Sept. 10-Oct. 7 | | | Present. Oct. 1-7, 1922: Deaths, 2. |
| Netherlands: | | | | |
| Amsterdam | July 30-Aug. 5 | 1 | | |

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

### Reports Received from July 1 to November 17, 1922—Continued.

#### TYPHUS FEVER—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| Norway: | | | | |
| Christiania | Aug. 15 | 1 | 1 | |
| Province— | | | | |
| Finmarken | July 26-Aug. 5 | 12 | 2 | Occurring in 3 localities. |
| Palestine: | | | | |
| Jerusalem | June 27-Sept. 4 | 3 | | |
| Persia: | | | | |
| Teheran | Mar. 22-June 22 | | 8 | |
| Poland | | | | Mar. 26-Apr. 22, 1922: Cases, 5,695; deaths, 349. Apr. 23-June 24, 1922: Cases, 9,402; deaths, 631. Recurrent typhus, Mar. 26-Apr. 22, 1922: Cases, 4,515; deaths, 155. Apr. 23-May 6, 1922: Cases, 1,598; deaths, 34. (Corrected report.) May 7-June 24, 1922: Cases, 4,790; deaths, 111. June 25-Sept. 7, 1922: Cases, 2,599; deaths, 193. Recurrent typhus, June 25-Sept. 7, 1922: Cases, 3,793; deaths, 113. |
| Warsaw | Apr. 23-June 24 | 156 | | Among transient and permanent residents. |
| Portugal: | | | | |
| Oporto | May 4-June 24 | 9 | 4 | |
| Do | June 29-Aug. 19 | 2 | 1 | |
| Seixal | Aug. 4 | 1 | | Village opposite Lisbon. |
| Rumania | | | | Apr. 1-May 31, 1922: Cases, 62. |
| City— | | | | |
| Bucharest | May 1-31 | 14 | | |
| Cerenauti | do | 5 | | |
| Chisinau | Apr. 1-30 | 21 | | |
| Cluj | May 1-31 | 18 | | |
| Constanza | do | 1 | | |
| Galata | do | 1 | | |
| Sulina | do | 2 | | |
| Province— | | | | |
| Bucovina | Jan. 1-31 | 35 | 13 | |
| Chisinau | Apr. 1-30 | 14 | | Recurrent typhus: Cases, 7. |
| Transylvania | Jan. 1-31 | 16 | 3 | |
| Russia: | | | | |
| Esthonia | Apr. 1-June 30 | 44 | | |
| Do | July 1-Aug. 31 | 15 | | |
| Lettonia | Apr. 1-June 30 | 635 | | Recurrent typhus: Cases, 40. |
| Do | July 1-Aug. 31 | 74 | | Recurrent typhus: Cases, 21; paratyphus cases, 3. |
| Siberia: | | | | |
| Vladivostok | July 1-31 | 3 | | |
| Spain: | | | | |
| Barcelona | July 13-19 | | 1 | |
| Madrid | May 1-June 30 | | 16 | |
| Do | July 1-Aug. 31 | | 7 | |
| Seville | May 21-June 3 | | 1 | |
| Switzerland: | | | | |
| Lucerne | Aug. 1-31 | 2 | | |
| Syria: | | | | |
| Aleppo | Aug. 27-Oct. 7 | | | Present and in interior. |
| Tunis: | | | | |
| Tunis | June 4-10 | 2 | | |
| Turkey: | | | | |
| Constantinople | May 21-June 24 | 16 | | |
| Do | July 9-Oct. 14 | 38 | 4 | |
| Union of South Africa | | | | Apr. 1-June 30, 1922: Cases, 1,220; deaths, 214 (colored); white, 17 cases. July 1-31, 1922: Cases, 629; deaths, 95 (colored); white, 2 cases. |
| Cape Province | | | | Apr. 1-June 30, 1922: Cases, 1,037; deaths, 194 (colored); white, 16 cases. July 1-31, 1922: Cases, 591; deaths, 83 (colored); white, 2 cases. |
| Do | Aug. 20-26 | | | Outbreaks. |

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

### Reports Received from July 1 to November 17, 1922—Continued.

#### TYPHUS FEVER—Continued.

| Place. | Date. | Cases. | Deaths. | Remarks. |
|---|---|---|---|---|
| Union of South Africa—Con. | | | | |
| Cape Province—Continued. | | | | |
| Diamond fields | | | | Sept. 28, 1922: Outbreaks at native locations near Kimberley. |
| Delport | Sept. 28 | | | Outbreak |
| Gong-Gong | do | | 20 | |
| Winter's Rush | do | | 12 | Including Longlands. |
| East London | do | 1 | | |
| Natal | | | | Apr. 1–June 30, 1922: Cases, 57; deaths, 7 (colored); July 1–31, 1922: Cases, 9; deaths, 4 (colored). |
| Orange Free State | | | | Apr. 1–June 30, 1922: Cases, 97; deaths, 10 (colored); white, 1 case. July 1–31, 1922: Cases, 25; deaths, 8 (colored). |
| Do | Aug. 27–Sept. 16 | | | Outbreaks. |
| Transvaal | | | | Apr. 1–June 30, 1922: Cases, 29; deaths, 2 (colored). July 1–31, 1922: Cases, 4 (colored). |
| Do | Aug. 27–Sept. 2 | | | Outbreaks. |
| Johannesburg | May 1–June 30 | 7 | 1 | |
| Do | July 1–31 | 1 | | |
| Yugoslavia | | | | Aug. 7–13, 1921: 2 new cases. |
| Bosnia-Herzegovina | Aug. 7–13 | 1 | | (1921.) |
| Croatia-Slavonia | Sept. 4–10 | 1 | | Do. |
| Serbia— | | | | |
| Belgrade | May 6–June 3 | 2 | | |
| Voivodina | Aug. 7–13 | 1 | | (1921.) |
| On vessels: | | | | |
| S. S. Chios | July 18 | 1 | | At Kavak quarantine station, Bosporus, from Novorossysk, a Russian Black Sea port. Vessel carried refugees for Saloniki, Greece. |
| S. S. Smolensk | June 14 | 1 | 1 | From Danzig, May 30, 1922. At embarkation detention camp, Southampton, England. (Public Health Reports, June 30, 1922, p. 1610.) |

#### YELLOW FEVER.

| | | | | |
|---|---|---|---|---|
| Brazil: | | | | |
| Bahia | July 30–Aug. 26 | 3 | 2 | |
| Mexico: | | | | |
| Ciudad Victoria | Sept. 27 | 1 | 1 | Origin, Tampico. |
| Tampico | July 27–[illegible] | 1 | 1 | From Panuco. Patient brought to Tampico on eighth day of illness. |
| Do | Aug. 30 | | 6 | Of these, 5 with origin at Panuco, State of Vera Cruz; 1 with origin at Tampico. Nov. 5, 1922: 1 case. |
| Tuxpam | Oct. 14–Nov. 10 | 2 | | |
| On vessel: | | | | |
| Schr. William E. Burnham | Sept. 13 | | 1 | At sea between Paramaribo and Mobile Quarantine, Ala., where the vessel arrived Sept. 14, 1922. The vessel left Freetown, Sierra Leone, June 25, and touched at Mungo and Paramaribo |

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